

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: HUA VAN LE Examiner #: 60626 Date: 01 April 2005
 Art Unit: 1752 Phone Number: 301 571 272-1332 Serial Number: 10/809,912
 Mail Box and Bldg/Room Location: REM 9761 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

APR 1 RECD

Title of Invention: _____ Pat. & T.M. Office _____
 Inventors (please provide full names): Please see parent Pub 2003/0175627 (627)
 Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for compounds of the general formula (C)

please also see some of its compounds

(1) from pages 23 - 28 with compounds 64 - 85

(2) _____ 34 _____ 105

(3) _____ 35 _____ 108

Thank you.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>EL</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: <u>4-13-05</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

=> file reg

FILE 'REGISTRY' ENTERED AT 18:42:38 ON 13 APR 2005
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=> display history full l1-

FILE 'LREGISTRY' ENTERED AT 14:33:14 ON 13 APR 2005
L1 STR

FILE 'REGISTRY' ENTERED AT 14:46:04 ON 13 APR 2005
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L3 SCR 1860
L4 16 SEA SSS SAM L1 AND L3
L5 1518 SEA SSS FUL L1 AND L3
SAV L5 LE912/A

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L8 STR L6
L9 STR L6
L10 STR L6
L11 STR L8

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L15 944 SEA SUB=L5 SSS FUL L7
SAV L15 LE912B/A
L16 46 SEA SUB=L5 SSS SAM L9
L17 1125 SEA SUB=L5 SSS FUL L9
SAV L17 LE912C/A
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L19 51 SEA SUB=L5 SSS FUL L10
SAV L19 LE912D/A
L20 32 SEA SUB=L5 SSS SAM L11
L21 719 SEA SUB=L5 SSS FUL L11
SAV L21 LE912E/A
L22 305 SEA (AG(L)X)/ELS (L) 2/ELC.SUB

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REPROG?
L24 116 SEA ((SILVER# OR AG) (W) (HALIDE# OR MONOHALIDE# OR
DIHALIDE# OR FLUORIDE# OR MONOFLUORIDE# OR DIFLUORIDE#
OR CHLORIDE# OR MONOCHLORIDE# OR BROMIDE# OR DICHLORIDE#
OR DIBROMIDE# OR IODIDE# OR MONOIODIDE# OR DIIODIDE#)) /BI
,AB
L25 113 SEA (AGX OR AGX2 OR AGF OR AGF2 OR AGCL OR AGCL2 OR AGBR
OR AGBR2 OR AGI OR AGI2) /BI,AB

FILE 'HCA' ENTERED AT 15:28:52 ON 13 APR 2005

L26 85669 SEA L22 OR L24 OR L25 OR AGX
L27 17 SEA L13
L28 409 SEA L15
L29 403 SEA L17
L30 58 SEA L19
L31 290 SEA L21
L32 16 SEA L27 AND L26
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L37 55 SEA L35 AND L36
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L40 203 SEA L31 AND L26
L41 297 SEA L38 AND L39
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L43 203 SEA L39 AND L40
L44 199 SEA L38 AND L39 AND L40
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L46 199 SEA L45 AND L26
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L48 6185 SEA HOSOKAWA ?/AU
L49 21284 SEA SHIMADA ?/AU
L50 26233 SEA UCHIDA ?/AU
L51 1487 SEA ISHIWATA ?/AU
L52 833 SEA KAWAGISHI ?/AU
L53 1 SEA L48 AND L49 AND L50 AND L51 AND L52
SEL L53 1 RN

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L54 22 SEA (152827-78-6/BI OR 152827-79-7/BI OR 573711-26-9/BI
L55 0 SEA L54 AND L5

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OR QUICK? OR ADDED OR ADDING# OR ADDS OR CHANG? OR VARY?
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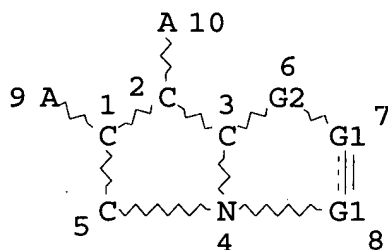
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OR VARIAB? OR ALTER OR ALTERS OR ALTERED OR ALTERED OR
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GOVERN?) (2A) SPEED?

L58 1 SEA L47 AND L57
L59 468 SEA L5
L60 2 SEA L59 AND L57
L61 8 SEA L59 AND SPEED?
L62 25 SEA L27 OR L34 OR L58 OR L60 OR L61
L63 39 SEA L37 NOT L62
L64 164 SEA L47 NOT (L62 OR L63)
L65 21 SEA L62 AND (1900-2001/PRY OR 1900-2001/PY)
L66 39 SEA L63 AND (1900-2001/PRY OR 1900-2001/PY)
L67 152 SEA L64 AND (1900-2001/PRY OR 1900-2001/PY)

FILE 'REGISTRY' ENTERED AT 18:42:38 ON 13 APR 2005

=> d 113 que stat
L1 STR



CH~A
@14 15

VAR G1=C/N
VAR G2=NH/14
NODE ATTRIBUTES:
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NSPEC IS RC AT 10
NSPEC IS RC AT 15
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DEFAULT ECLEVEL IS LIMITED

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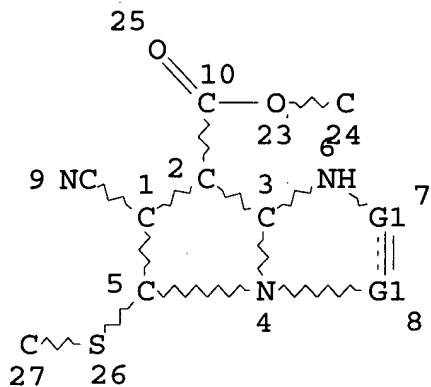
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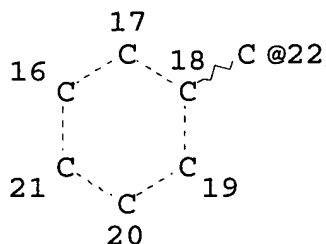
L3 SCR 1860

L5 1518 SEA FILE=REGISTRY SSS FUL L1 AND L3

L6 STR



CH~A
14 15



VAR G1=22/N

NODE ATTRIBUTES:

NSPEC IS RC AT 15

NSPEC IS R AT 24

NSPEC IS RC AT 27

CONNECT IS E2 RC AT 26

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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STEREO ATTRIBUTES: NONE

L13 13 SEA FILE=REGISTRY SUB=L5 SSS FUL L6

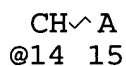
100.0% PROCESSED 67 ITERATIONS

13 ANSWERS

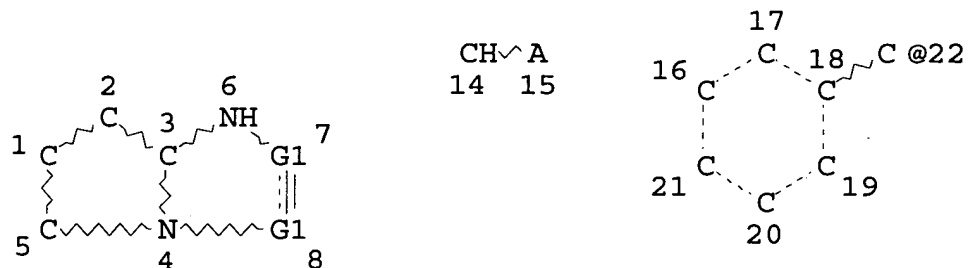
SEARCH TIME: 00.00.01

=> d l15 que stat

L1 STR



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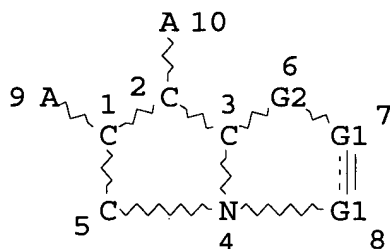


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944 ANSWERS

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L1 STR
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CH \searrow A
@14 15

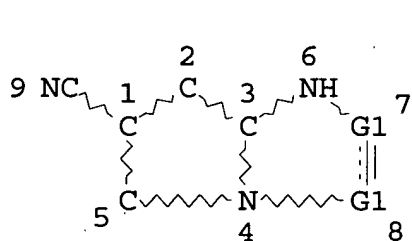
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VAR G2=NH/14
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NSPEC      IS RC      AT     10
NSPEC      IS RC      AT     15
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 12

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STEREO ATTRIBUTES: NONE
L3          SCR 1860
L5          1518 SEA FILE=REGISTRY SSS FUL L1 AND L3
L9          STR
```


$$\begin{array}{cc} \text{CH} \searrow & \text{A} \\ 14 & 15 \end{array}$$

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VAR G1=C/N
NODE ATTRIBUTES:
```

NSPEC IS RC AT 15
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

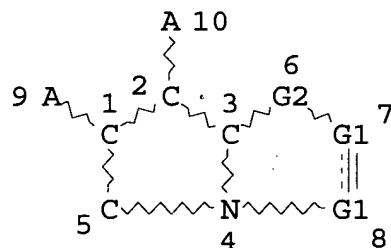
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 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE
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1125 ANSWERS

=> d 119 que stat
 L1 STR

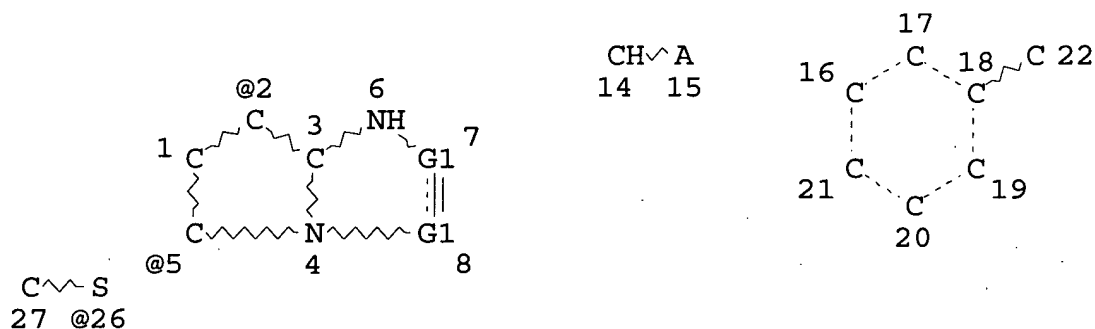


CH~A
 @14 15

VAR G1=C/N
 VAR G2=NH/14
 NODE ATTRIBUTES:
 NSPEC IS RC AT 9
 NSPEC IS RC AT 10
 NSPEC IS RC AT 15
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE
 L3 SCR 1860
 L5 1518 SEA FILE=REGISTRY SSS FUL L1 AND L3
 L10 STR



VAR G1=C/N
VPA 26-5/2 U
NODE ATTRIBUTES:
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NSPEC IS RC AT 27
CONNECT IS E2 RC AT 26
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

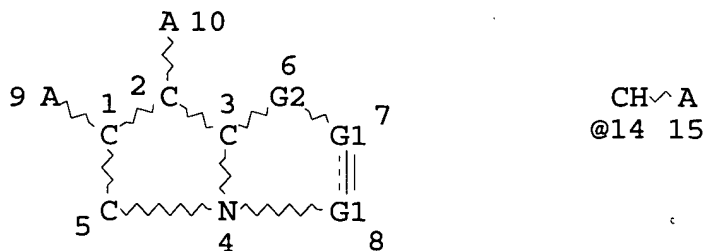
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NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE
L19 51 SEA FILE=REGISTRY SUB=L5 SSS FUL L10

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SEARCH TIME: 00.00.01

51 ANSWERS

=> d 121 que stat
L1 STR



VAR G1=C/N
VAR G2=NH/14

NODE ATTRIBUTES:

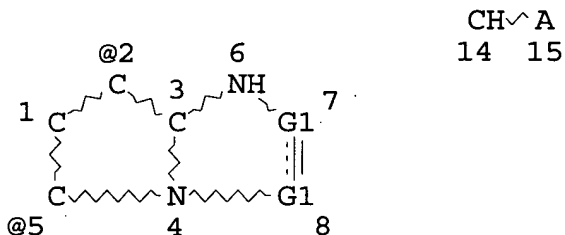
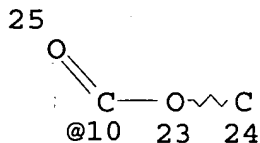
NSPEC IS RC AT 9
 NSPEC IS RC AT 10
 NSPEC IS RC AT 15
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L3 SCR 1860
 L5 1518 SEA FILE=REGISTRY SSS FUL L1 AND L3
 L11 STR



VAR G1=C/N

VPA 10-2/5 U

NODE ATTRIBUTES:

NSPEC IS RC AT 15
 NSPEC IS R AT 24
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L21 719 SEA FILE=REGISTRY SUB=L5 SSS FUL L11

100.0% PROCESSED 1205 ITERATIONS
 SEARCH TIME: 00.00.01

719 ANSWERS

=> file hca

FILE 'HCA' ENTERED AT 18:43:44 ON 13 APR 2005

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=> d l65 1-21 cbib abs hitstr hitind

L65 ANSWER 1 OF 21 HCA COPYRIGHT 2005 ACS on STN

138:178165 A color photothermographic element comprising a dye-forming system for forming a novel infrared dye. Reynolds, James Henry; Olson, Leif P.; Slusarek, Wojciech Kazimierz; Levy, David Howard (Eastman Kodak Company, USA). Eur. Pat. Appl. EP 1284440 A1 20030219, 69 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK. (English). CODEN: EPXXDW. APPLICATION: EP 2002-78165 20020801. PRIORITY: US 2001-928834 20010813.

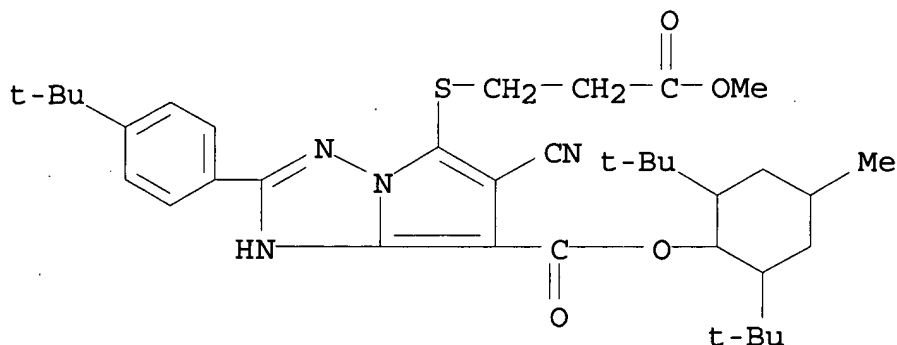
AB The present invention is directed to a photothermog. element comprising at least one **imaging** layer with a pyrrolotriazole coupler and a developing agent, or precursor thereof, the combination of which is capable of forming an **image** record in the IR region of the light spectrum in response to a selected hue of visible light. This expedient leads to the formation of high quality **images**, esp. when scanning photothermog. elements in which the **silver halide**, metallic silver, and/or any org. silver salts have not been removed. Also disclosed is a method for photothermog. forming a developed **image** comprising an IR **image** record.

IT 497213-23-7

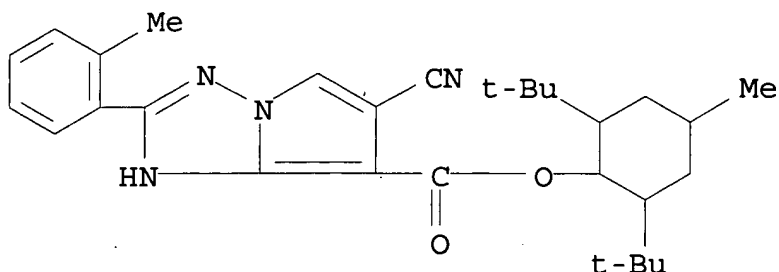
(coupler; color photothermog. element comprising dye-forming system for forming novel IR dye)

RN 497213-23-7 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[(3-methoxy-3-oxopropyl)thio]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



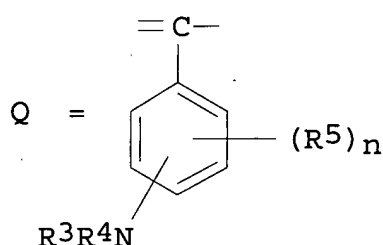
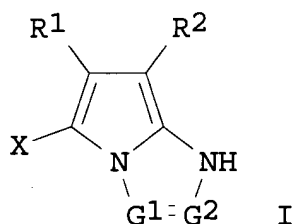
- IC ICM: G03C007-30
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- IT **Photographic** couplers
Photothermographic copying
(color photothermog. element comprising dye-forming system for forming novel IR dye)
- IT 178743-91-4 188745-52-0 210965-03-0 497213-22-6
497213-23-7 497213-24-8 497213-25-9 497213-26-0
497213-27-1
(coupler; color photothermog. element comprising dye-forming system for forming novel IR dye)
- L65 ANSWER 2 OF 21 HCA COPYRIGHT 2005 ACS on STN
- 137:331135 Heat-developable diazo recording material. Ikeda, Takami; Jinbo, Yoshihiro (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2002321459 A2 20021105, 40 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2001-125669 20010424.
- AB The material has a heat-sensitive layer contg. at least the diazonium salt characterized by that $\epsilon \cdot \phi$ is ≥ 160 or 160-500 (ϵ = light absorption const.; ϕ = photolytic quantum yield at 450 nm, resp.) and the magenta coupler. It showed improved fixing rate for high speed recording.
- IT 223734-03-0
(coupler; heat-developable diazo recording material contg. diazonium salt with controlled quantum yield and light absorption)
- RN 223734-03-0 HCA
- CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-(2-methylphenyl)-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM B41M005-30
ICS B41M005-26; B41M005-28
CC 74-10 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT 223734-03-0
(coupler; heat-developable diazo recording material contg. diazonium salt with controlled quantum yield and light absorption)

L65 ANSWER 3 OF 21 HCA COPYRIGHT 2005 ACS on STN
135:53457 **Silver halide color photographic**
material containing pyrrolotriazole cyan coupler. Tateishi, Keiichi; Mikoshiba, Takashi; Matsuda, Naoto (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001163887 A2 20010619, 75 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2000-282530 20000918. PRIORITY: JP 1999-279838 19990930.

GI



AB The material contains a coupler I [X = H, substituent to be released on coupling with an arom. primary amine color developer; R1, R2 = electron attractive group with Hammett's σ_p value ≥ 0.20 ; $\sigma_p(R1) + \sigma_p(R2) \geq 0.65$; G1, G2 = N, Q (R3 = each (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle; R4 = H, substituent linked with C; R3 and R4 may form a ring; R5 = substituent; n = 0-4); ≥ 1 of G1-2 = N; I may form a dimer or (co)polymer] in ≥ 1 layer on a support. The pyrrolotriazole compd. I (X = H, halo, C1-32 alkyloxy, C6-32 aryloxy, C1-32 alkylthio, C6-32 arylthio, C2-32 heterocyclic thio, C2-32 alkyloxycarbonyloxy, C7-32 aryloxycarbonyloxy, C1-32 carbamoyloxy, C3-32 heterocyclic carbonyloxy, 5- or 6-membered C2-32 N-contg. heterocycle linking to a coupling active site with N; R1, R2 = electron attractive group with Hammett's σ_p value ≥ 0.20 ; $\sigma_p(R1) + \sigma_p(R2) \geq 0.65$; G1, G2 = N, Q) is also claimed. The material shows improved color reprodn., colored **image** stability, and processing stability.

IT 344941-80-6

(silver halide color photog.

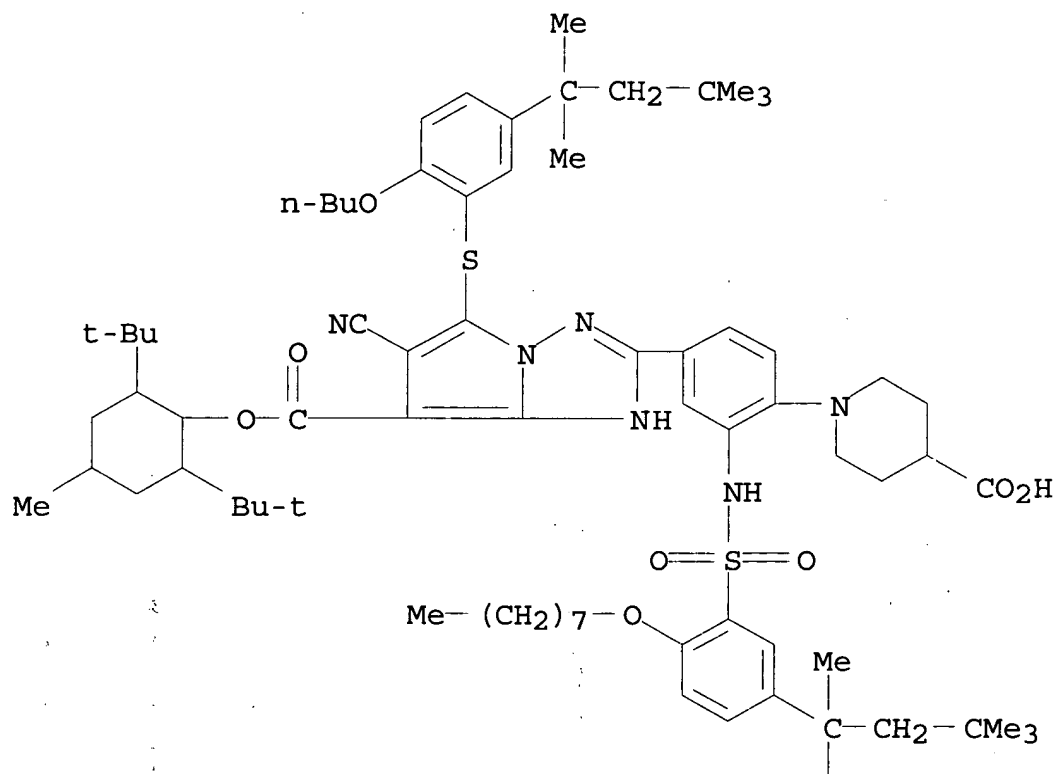
material contg. pyrrolotriazole cyan coupler)

RN 344941-80-6 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-2-[4-(4-carboxy-1-piperidinyl)-3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-6-cyano-,
7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester (9CI) (CA

INDEX NAME)

PAGE 1-A



PAGE 2-A

Me

IC ICM C07D487-04
 ICS G03C007-38
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 Section cross-reference(s): 28
 ST silver halide photog cyan coupler
 pyrrolotriazole
 IT Cyan couplers
 (silver halide color photog.
 material contg. pyrrolotriazole cyan coupler)
 IT 344941-73-7 344941-74-8 344941-75-9 344941-76-0 344941-77-1

344941-78-2 344941-79-3 **344941-80-6** 344941-81-7
344941-82-8

(**silver halide color photog.**

material contg. pyrrolotriazole cyan coupler)

IT 344941-65-7P 344941-66-8P 344941-67-9P 344941-68-0P
344941-69-1P 344941-70-4P 344941-71-5P 344941-72-6P
344941-86-2P 344941-87-3P

(**silver halide color photog.**

material contg. pyrrolotriazole cyan coupler)

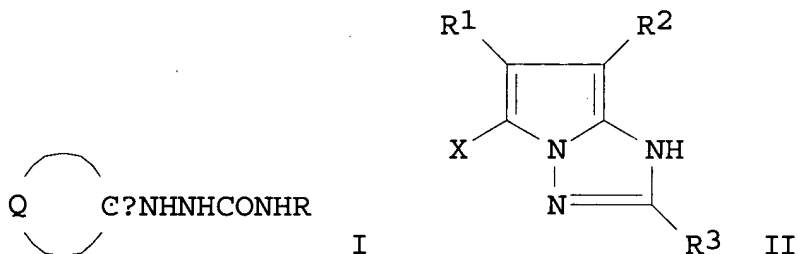
L65 ANSWER 4 OF 21 HCA COPYRIGHT 2005 ACS on STN

133:367787 **Silver halide color photographic**

material and **image** formation using same. Shimada,
Yasuhiro; Makuta, Toshiyuki (Fuji Photo Film Co., Ltd., Japan).
Jpn. Kokai Tokkyo Koho JP 2000314947 A2 **20001114**, 70 pp.

(Japanese). CODEN: JKXXAF. APPLICATION: JP 1999-125256 19990430.

GI

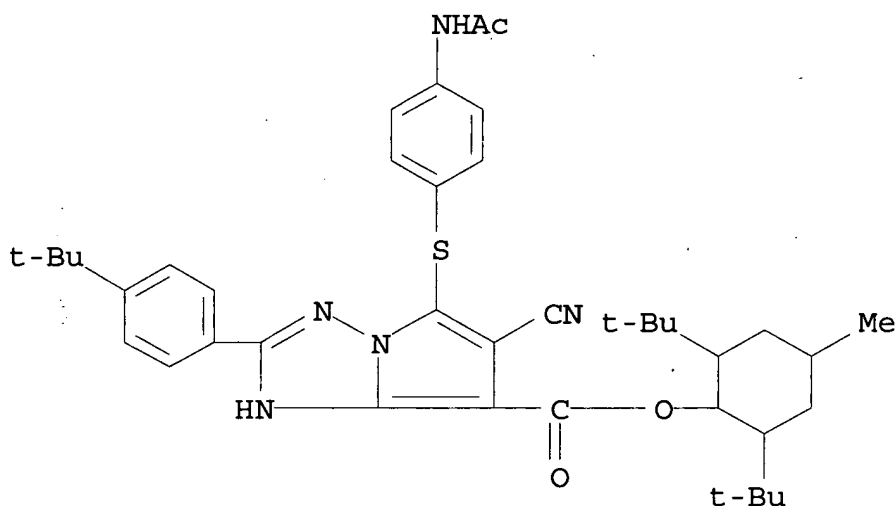


AB The title **photog.** material, possessing .gtoreq.1
photog. constitutive layers on a support, contains a
coloring reducing agent of the formula I [C.alpha. = C; R =
(substituted) alkyl, aryl, heterocyclic group; Q = atoms required to
form an unsatd. ring along with C.alpha.] in .gtoreq.1 of the layers
and .gtoreq.1 dye-forming coupler and .gtoreq.1 non-color-developing
coupler of the formula II (R1, R2 = electron-attracting group; R3 =
substituent; X = alkyl, aryl, heterocyclic group, alkoxy, aryloxy,
acylamino, sulfonamide, phosphonamide, alkylthio, arylthio, ureido,
urethane) in .gtoreq.1 of the layers. The material is
scanning-exposed for 10-8-10-4 s per 1 pixel and developed with an
alk. soln. essentially contg. no developing agent to form
images. The material capable of being processed with stable
alk. solns. shows excellent storage stability and provides durable
color **images**.

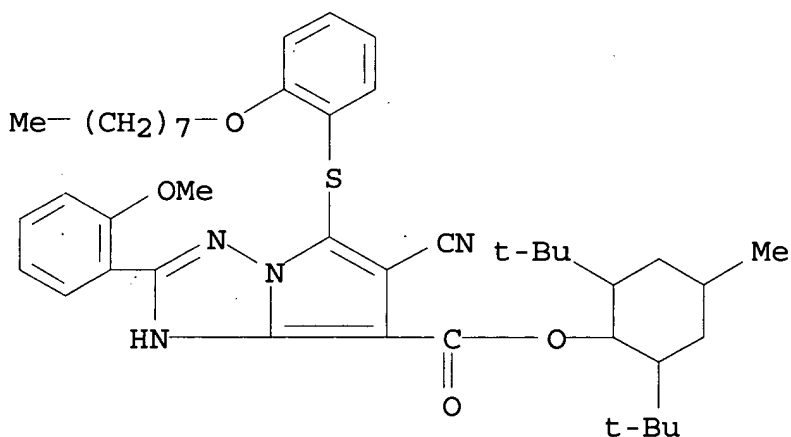
IT **306766-21-2 306766-23-4**

(non-dye-forming coupler; **photog.** film contg. coloring
reducing agent, dye-forming coupler, and non-dye-forming coupler)

RN 306766-21-2 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[4-(acetylamino)phenyl]thio]-6-cyano-2-[4-(1,1-
 dimethylethyl)phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-
 methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 306766-23-4 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-(2-methoxyphenyl)-5-[[2-(octyloxy)phenyl]thio]-,
 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
 NAME)



IC ICM G03C007-392
 ICS C09B029-36; G03C001-42; G03C001-74; G03C005-08; G03C007-38;
 G03C007-388; G03C007-407; G03C007-46; C07D487-04
 CC 74-2 (Radiation Chemistry, Photochemistry, and

Photographic and Other Reprographic Processes)

ST **photog** film coloring reducing agent; non dye forming coupler **photog** film; alk processing soln **photog**

IT **Photographic** couplers
Photographic films
 (photog. film contg. coloring reducing agent, dye-forming coupler, and non-dye-forming coupler)

IT **Photographic** processing
 (photog. film processed with alk. soln. contg. no developing agent)

IT 111130-66-6 142859-67-4 185841-53-6 185841-55-8 185841-57-0
 192931-81-0 306766-08-5
 (dye-forming coupler; **photog.** film contg. coloring reducing agent, dye-forming coupler, and non-dye-forming coupler)

IT 306766-12-1 306766-14-3 306766-16-5 306766-17-6 306766-19-8
306766-21-2 306766-23-4
 (non-dye-forming coupler; **photog.** film contg. coloring reducing agent, dye-forming coupler, and non-dye-forming coupler)

IT 182296-98-6 182297-11-6 191231-09-1 192567-35-4 215536-29-1
 306766-02-9
 (reducing agent; **photog.** film contg. coloring reducing agent, dye-forming coupler, and non-dye-forming coupler)

L65 ANSWER 5 OF 21 HCA COPYRIGHT 2005 ACS on STN

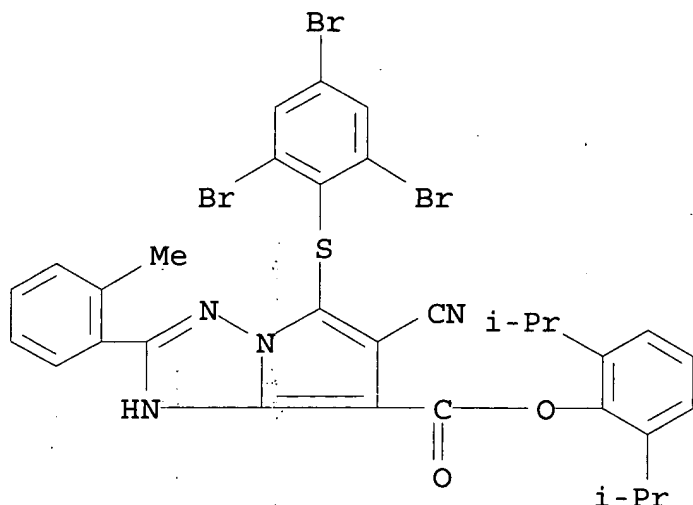
131:122889 **Silver halide** color **photographic** material. Mikoshiba, Hisashi; Soejima, Shin; Shimada, Yasuhiro; Takahashi, Osamu; Deguchi, Yasuaki (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 932079 A1 **19990728**, 174 pp.
 DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO. (English). CODEN: EPXXDW. APPLICATION: EP 1999-101049 19990122. PRIORITY: JP 1998-25208 19980123; JP 1998-76596 19980310; JP 1998-78512 19980312; JP 1998-80368 19980312; JP 1998-288708 19980928.

AB There is disclosed a **silver halide** color **photog.** material comprising a compd. of formula $R_1C(R_7)n[C(R_2)(R_3)OCOR_4=CR_5R_6]3-n$ wherein R_1 is a hydrogen atom, an alkyl group having 1 to 30 carbon atoms, an alkenyl group having 2 to 30 carbon atoms, or an aryl group; R_2 , R_3 , R_4 , R_5 , R_6 , and R_7 each independently represents a hydrogen atom or an alkyl group having 1 to 30 carbon atoms; and n is 0 or 1. The color **photog.** material provide cyan **images** of excellent fastness.

IT **232947-60-3**
 (color **photog.** emulsions for improved cyan dye **image** formation contg. vinyl compds. and)

RN 232947-60-3 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-(2-methylphenyl)-5-[(2,4,6-tribromophenyl)thio]-,

2,6-bis(1-methylethyl)phenyl ester (9CI) (CA INDEX NAME)



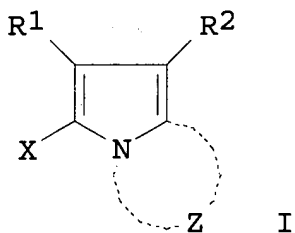
- IC ICM G03C007-30
ICS G03C007-38
- ICA C07C069-533
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **photog** material cyan **image** improved fastness; vinyl stabilizer color **photog** material
- IT **Photographic** emulsions
(color; contg. vinyl compds. and pyrrolotriazole cyan dye formers)
- IT **Photographic** stabilizers
(vinyl compds. for color **photog.** materials for forming cyan **images** of improved fastness)
- IT 1820-47-9 3290-92-4 3524-68-3 4986-89-4 15625-89-5,
Trimethylolpropane triacrylate 85391-84-0 232947-49-8
232947-50-1 232947-51-2 232947-52-3 232947-53-4 232947-54-5
(color **photog.** emulsions for improved cyan dye **image** formation contg. pyrrolotriazole couplers and)
- IT 31037-84-0 99141-89-6 117827-06-2 151019-65-7 178743-91-4
184947-09-9 188745-52-0 200049-62-3 200110-90-3 200137-20-8
211051-73-9 211051-76-2 219553-72-7 232947-55-6 232947-56-7
232947-57-8 232947-58-9 232947-59-0 **232947-60-3**
232951-89-2
(color **photog.** emulsions for improved cyan dye **image** formation contg. vinyl compds. and)
- IT 25035-82-9, Butyl acrylate-methacrylic acid copolymer 140201-11-2
211051-99-9 211052-01-6 211052-05-0 220323-13-7, 232947-62-5
232947-63-6 232947-64-7 232947-65-8 232947-66-9 232951-90-5
232951-91-6

(color **photog.** emulsions for improved cyan dye **image** formation contg. vinyl compds., pyrrolotriazole cyan couplers and)

- IT 190436-30-7P 194419-30-2P 194419-31-3P 200049-66-7P
(prepn. and reaction in prepg. pyrrolotriazole cyan **photog.** coupler)
- IT 4445-11-8P 73923-17-8P 232947-67-0P
(prepn. and reaction in prepg. reagent for color **photog.** materials)
- IT 202483-63-4P
(prepn. and use in color **photog.** emulsions for improved cyan dye **image** formation)
- IT 105-34-0, Methyl cyanoacetate 15159-40-7, 4-Morpholinecarbonyl chloride 163119-16-2 194419-32-4
(reaction in prepg. pyrrolotriazole cyan **photog.** coupler)
- IT 106-65-0, Methyl succinate
(reaction in prepg. reagent for color **photog.** materials)

L65 ANSWER 6 OF 21 HCA COPYRIGHT 2005 ACS on STN
129:168052 Silver halide color photographic material containing a pyrroloazole coupler. Yamazaki, Takayasu (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 10198011 A2
19980731 Heisei, 46 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1997-15916 19970113.

GI



- AB Claimed color photog. material having a support and a component layer contg. an Ag halide emulsion, a developing agent, a compd. to form a dye by coupling with the oxidized developing agent and the binder, which develop color image by being contacted with the processing sheet contg. a base or base precursor followed by heating the stack, is characterized in (1) that at least one of the emulsion contains, in the amt. of 50% of total projected area, AgCl-dominant (AgCl .gtoreq.50 mol%) tabular grains with (100) surface and aspect ratio of .gtoreq.2.0, and (2) that a pyrroloazole compd. I (Z =

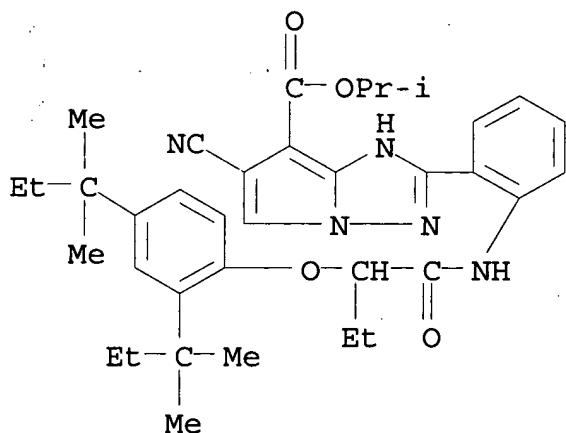
azole ring; R1, R2 = electron-attracting group with Hammett's .sigma..rho. .gtoreq.0.3, X = H, leaving group to be released by the coupling reaction with the oxidized developing agent). The photog. material is thermally processed without using a developer soln. Compd. I is a cyan coupler with high developability and low fog. Thus, coupler I (Z = 3-[4-(2-octyl-5-octyloxy-phenylsulfoamino)-2-methyl-phenoxyethyl]-1,2,4-triazole ring; R1 = methoxycarbonyl; R2 = CN; X = H) was incorporated in the thermal development type color photog. material.

IT 158293-27-7 181364-68-1 211053-65-5
211053-66-6 211053-67-7 211053-68-8
211053-69-9 211053-70-2 211053-71-3

(coupler; color photog. material contg. pyrroloazole coupler to improve speed/fog ratio and color developability)

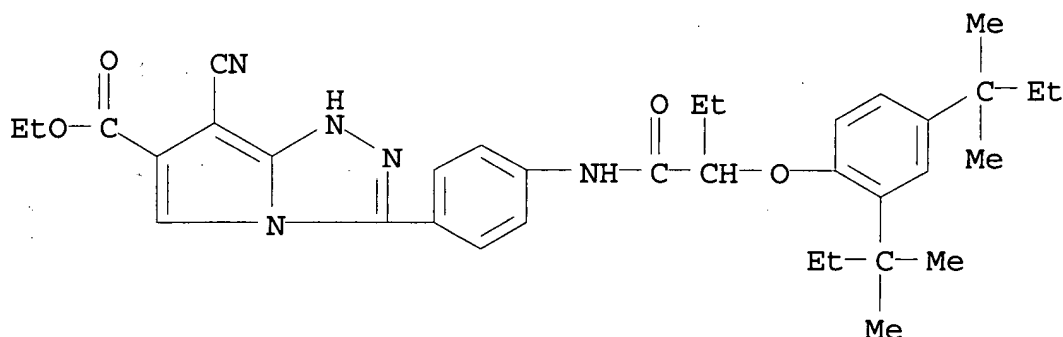
RN 158293-27-7 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-6-cyano-, 1-methylethyl ester (9CI) (CA INDEX NAME)



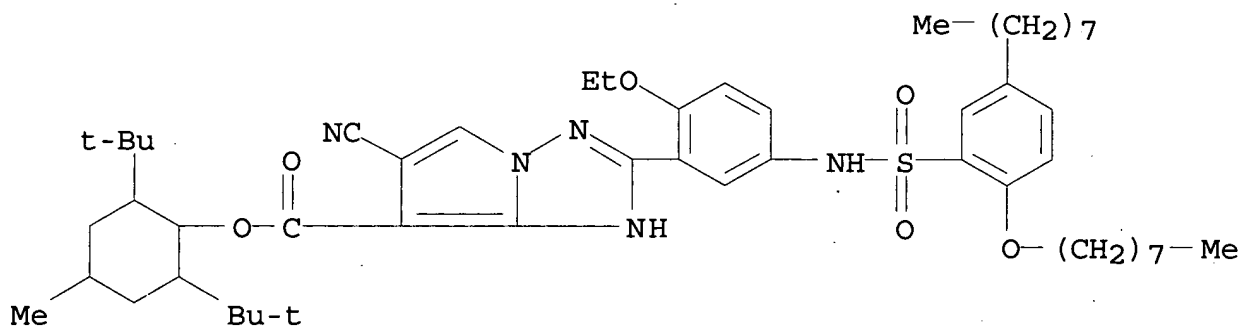
RN 181364-68-1 HCA

CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-6-carboxylic acid,
3-[4-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-7-cyano-, ethyl ester (9CI) (CA INDEX NAME)



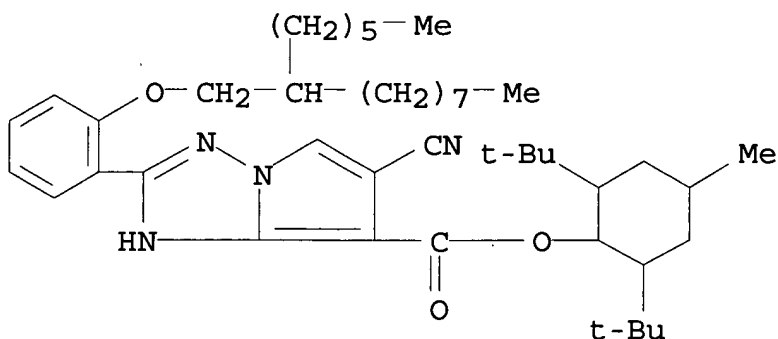
RN 211053-65-5 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-[2-ethoxy-5-[[[5-octyl-2-(octyloxy)phenyl]sulfonyl]amino]p
 henyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI)
 (CA INDEX NAME)

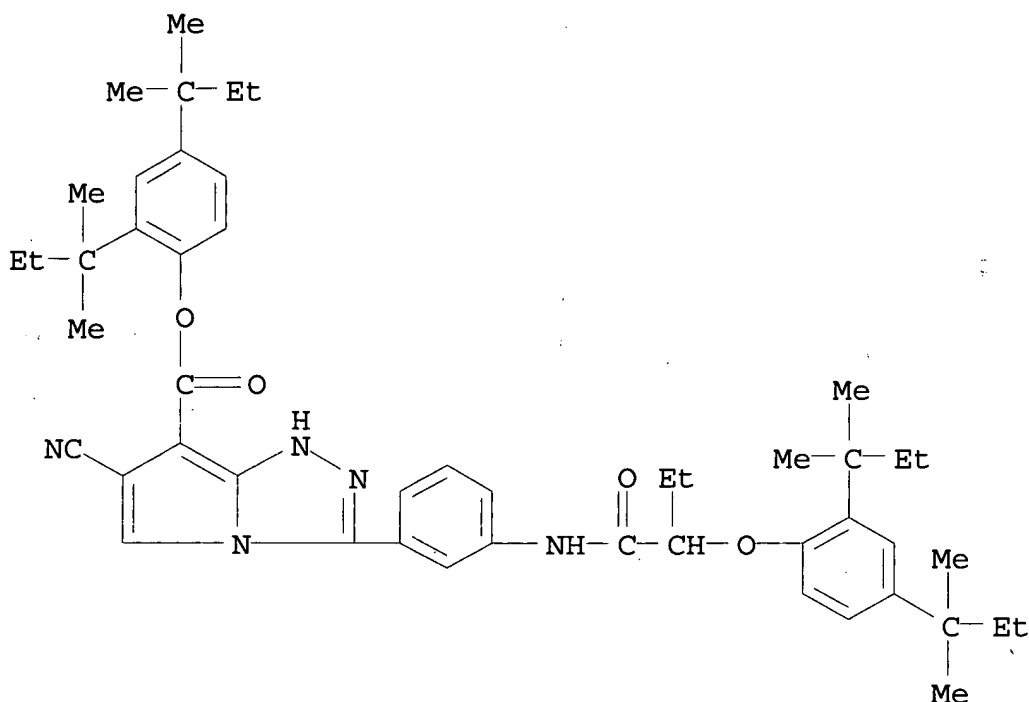


RN 211053-66-6 HCA

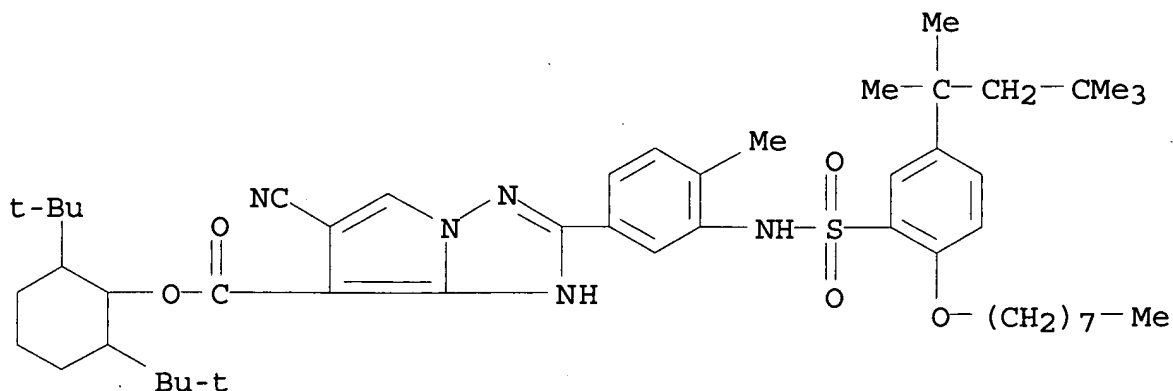
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-[2-[(2-hexyldecyl)oxy]phenyl]-, 2,6-bis(1,1-dimethylethyl)-
 4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 211053-67-7 HCA
 CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-7-carboxylic acid,
 3-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-6-cyano-, 2,4-bis(1,1-dimethylpropyl)phenyl
 ester (9CI) (CA INDEX NAME)



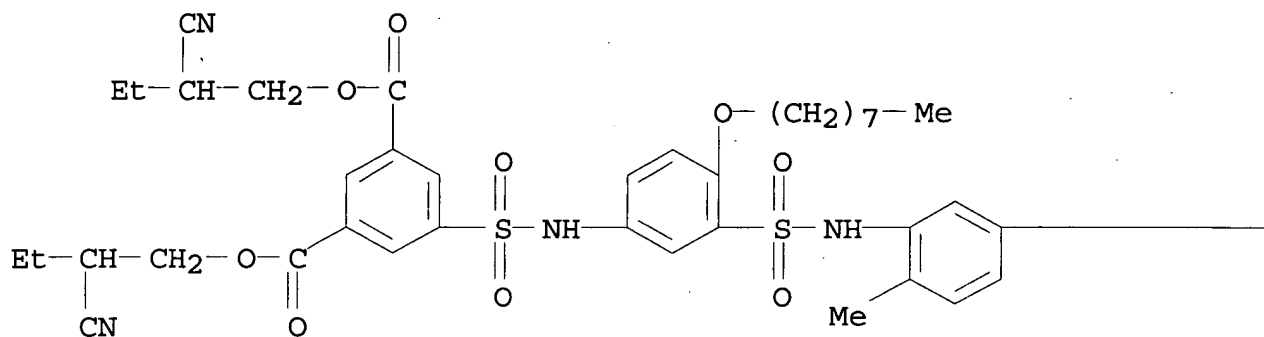
RN 211053-68-8 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-[4-methyl-3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-,
 2,6-bis(1,1-dimethylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



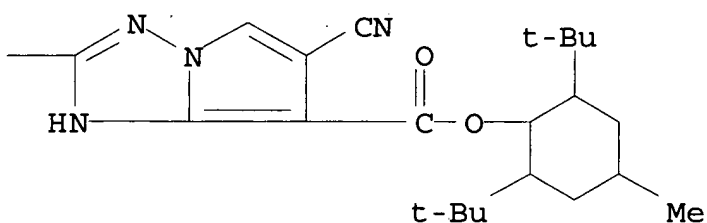
RN 211053-69-9 HCA

CN 1,3-Benzenedicarboxylic acid, 5-[[[3-[[[5-[7-[[[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl]oxy]carbonyl]-6-cyano-1H-pyrrolo[1,2-b][1,2,4]triazol-2-yl]-2-methylphenyl]amino]sulfonyl]-4-(octyloxy)phenyl]amino]sulfonyl]-, bis(2-cyanobutyl) ester (9CI)
(CA INDEX NAME)

PAGE 1-A

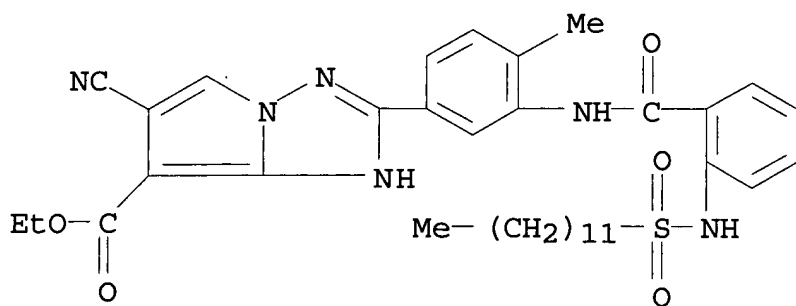


PAGE 1-B



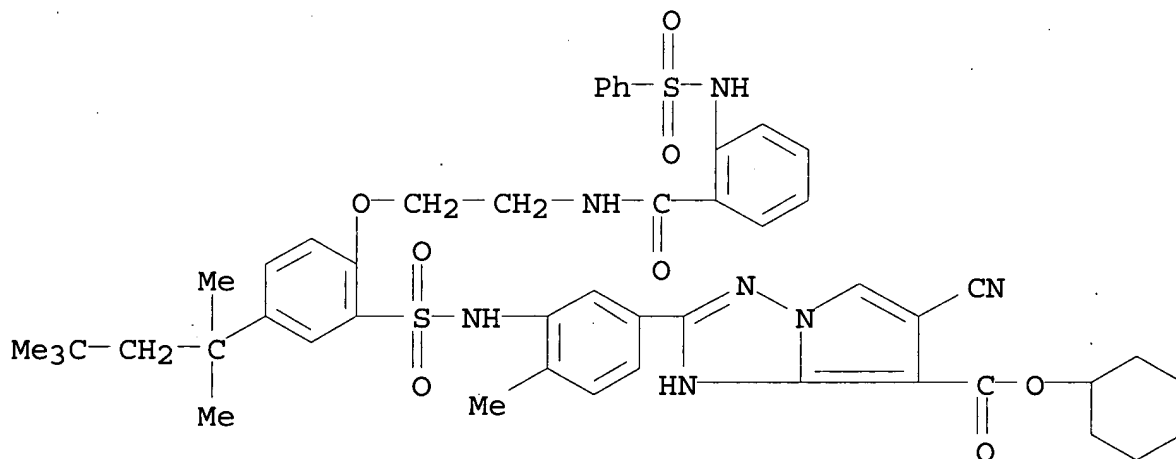
RN 211053-70-2 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[3-[[2-[(dodecylsulfonyl)amino]benzoyl]amino]-4-methylphenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 211053-71-3 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-[4-methyl-3-[[[2-[2-[[2-[(phenylsulfonyl)amino]benzoyl]ami
 no]ethoxy]-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-
 , cyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38

ICS G03C001-035; G03C001-42; G03C007-00; G03C007-392; G03C008-40

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)

IT Cyan couplers

Photographic emulsions

(color photog. material contg. pyrroloazole coupler to improve
 speed/fog ratio and color developability)

IT 158293-27-7 181364-68-1 211053-65-5

211053-66-6 211053-67-7 211053-68-8

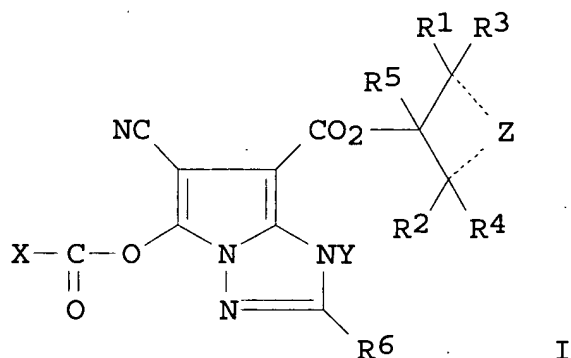
211053-69-9 211053-70-2 211053-71-3

(coupler; color photog. material contg. pyrroloazole coupler to
 improve speed/fog ratio and color developability)

L65 ANSWER 7 OF 21 HCA COPYRIGHT 2005 ACS on STN

129:10563 Silver halide color photographic photosensitive material and image forming method using same. Kawai, Kiyoshi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 10097040 A2
19980414 Heisei, 51 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1997-158764 19970616. PRIORITY: JP 1996-154622 19960614.

GI

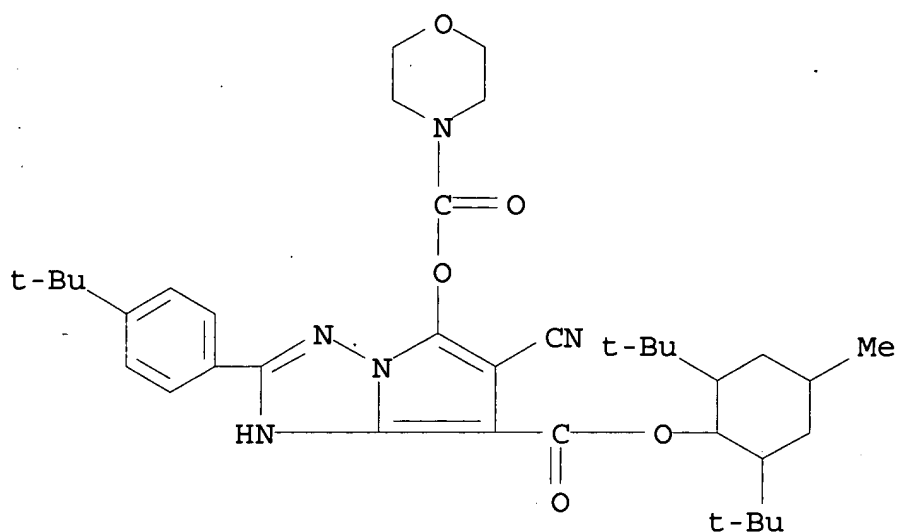


AB The photog. material comprises at least three different silver halide emulsion layers having different color sensitivity among them, and a hydrophilic colloidal layer, wherein the cyan coupler silver halide emulsion layer comprises pigment forming coupler I (R1-5 = H, substituent; Z = ring forming non metal element group; X = heterocyclic, substituted amino group, aryl; Y = H, substituent; R6 = substituent). At least one of the photosensitive layer contg. the cyan coupler comprises .gtoreq.80 % silver halide salt and the silver halide salt is a tabular silver halide particle having (100) main face. The photog. photosensitive material provides the rapid processing **speed**, a sharp image, and the improved dependency on the photog. material treatment, and is used for scanning exposition by a semiconductor laser beam.

IT **188745-52-0 200049-64-5 200049-65-6**
 (pigment forming coupler for silver halide color photog. photosensitive material)

RN 188745-52-0 HCA

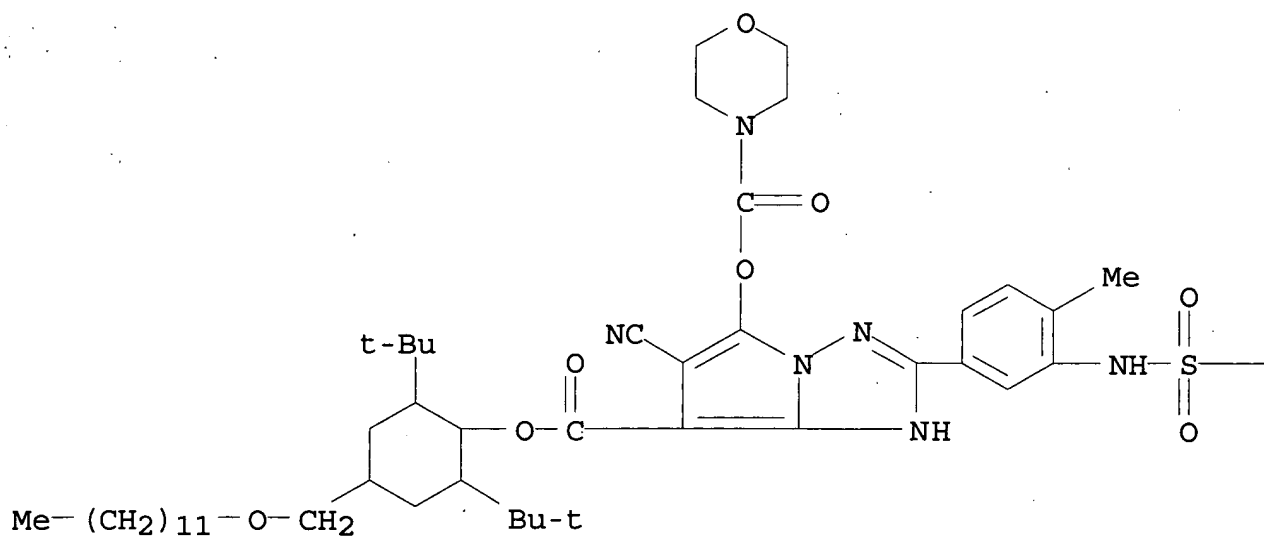
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[(4-morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



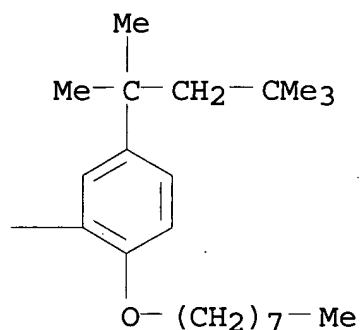
RN 200049-64-5 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-[4-methyl-3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-5-[(4-morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-[(dodecyloxy)methyl]cyclohexyl ester (9CI) (CA INDEX NAME)

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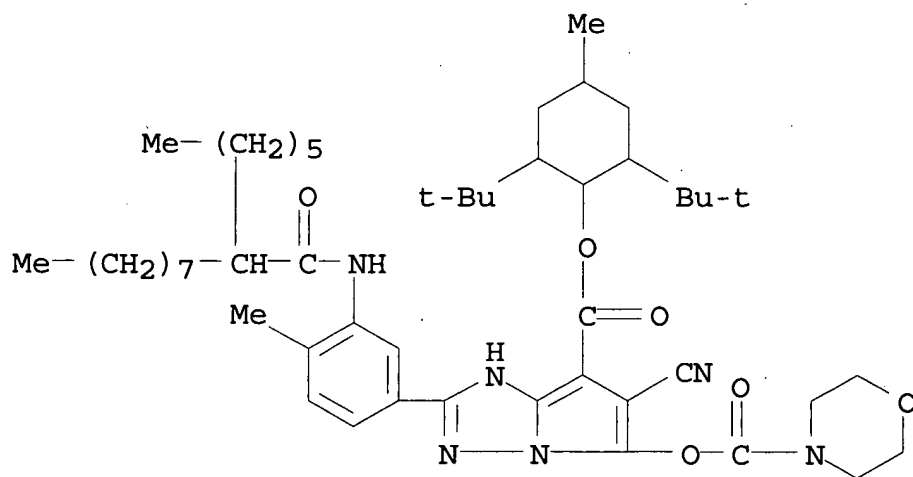


PAGE 1-B



RN 200049-65-6 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[3-[(2-hexyl-1-oxodecyl)amino]-4-methylphenyl]-5-[(4-morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38

ICS G03C001-035; G03C001-83; G03C005-08; G03C007-00

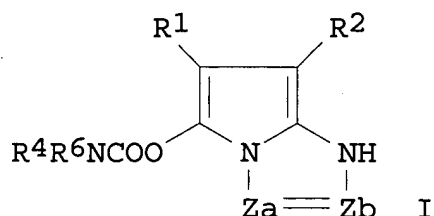
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and
Other Reprographic Processes)

IT 188745-52-0 200049-64-5 200049-65-6

(pigment forming coupler for silver halide color photog.
photosensitive material)

L65 ANSWER 8 OF 21 HCA COPYRIGHT 2005 ACS on STN
 128:174065. Silver halide color photographic material having
 red-sensitive layer with some blue/green sensitivity, and the
 image-forming process. Hayashi, Yasuhiro (Fuji Photo Film Co.,
 Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 10020462 A2
 19980123 Heisei, 45 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1996-186895 19960628.

GI



AB Claimed color photog. material is characterized by (1) that
 .gtoreq.1 of cyan-coupler-contg. red-sensitive layer(s) contains, in
 the amt. of .gtoreq.50% of total grain-projected areas,
 AgCl-dominant grains (AgCl content .gtoreq.95 mol%) comprising (100)
 surfaces as the major plane and spectrally sensitized by
 red-sensitizing and green- and/or blue-sensitizing dyes, and (2)
 that the cyan coupler incorporated in the layer(s) is represented by
 the formula I (Za = -CR3:, -N:; when Za = -N:, Zb = CR3, and when Za
 = -CR:., Zb = -N:; R1, R2 = electron-attractive group with Hamet's
 sigma const. of 0.2-1.0; R3 = substituent; R4, R5 = H, aliph., aryl,
 heterocyclic group; R4 and R5 may be combined to form a ring). Also
 claimed is the image-forming process in which the photog. material
 is exposed by a scanning mode, followed by chromogenic development.
 Preferable scanning procedure is by laser beam scanning. It has
 rapid developability and good storage stability, and particularly it
 improves color reprodn. quality of shadow details, which is prone to
 be insufficient when the coupler provides cyan color with high
 purity. Thus, a multilayer color neg. film comprising AgCl-dominant
 emulsion layers was added by 2-tert-butyl-5-diethylaminocarbonyloxy-
 6-cyano-7-(2,6-di-tert-butyl-4-methyl-cyclohexyloxycarbonyl)-
 pyrrolo[1,2d]imidazole in both low and high **speed**
 red-sensitive layers which were spectrally sensitized to red and
 somewhat to green.

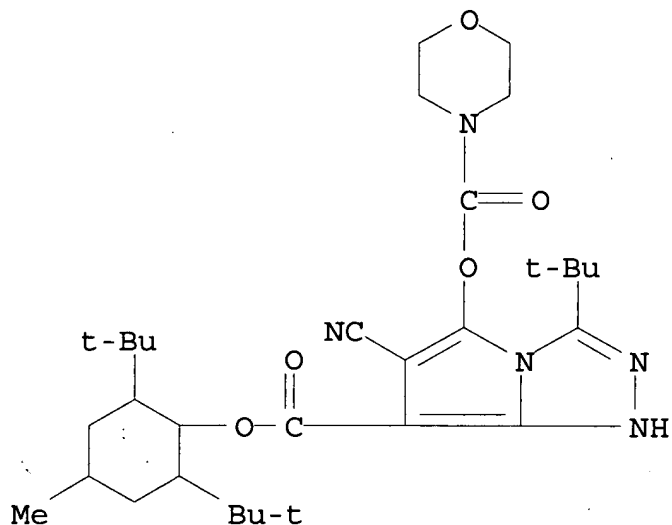
IT 178744-03-1 184773-62-4 188745-52-0
 202927-10-4 202927-11-5 202927-12-6
 202927-13-7 202927-14-8 202927-15-9
 202927-16-0

(coupler; color photog. material having red-sensitive layer with

some blue/green sensitivity for scanning-mode processing)

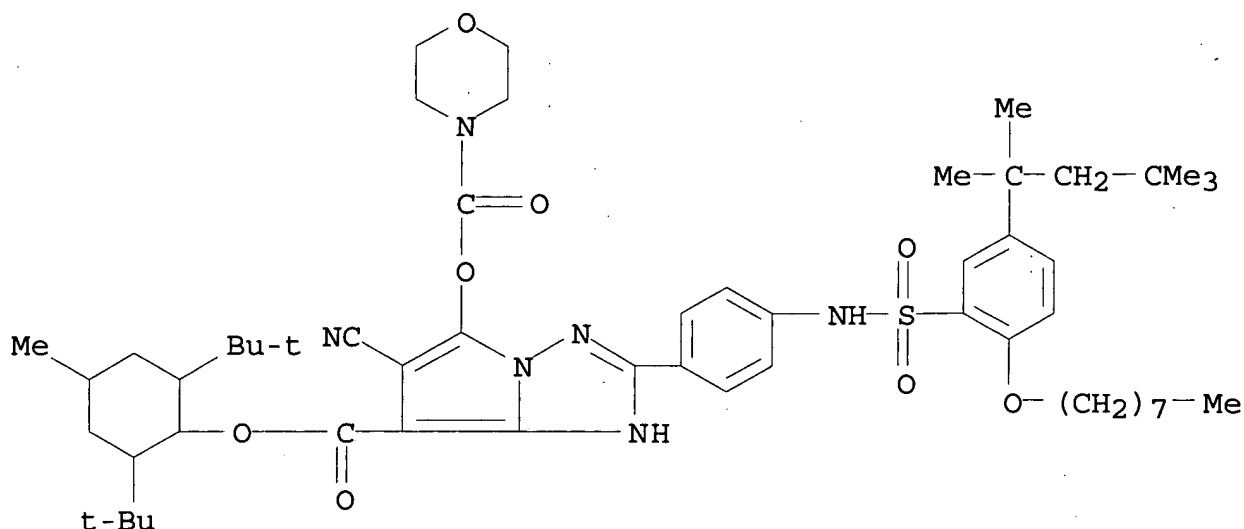
RN 178744-03-1 HCA

CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-7-carboxylic acid,
6-cyano-3-(1,1-dimethylethyl)-5-[(4-morpholinylcarbonyl)oxy]-,
2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
NAME)



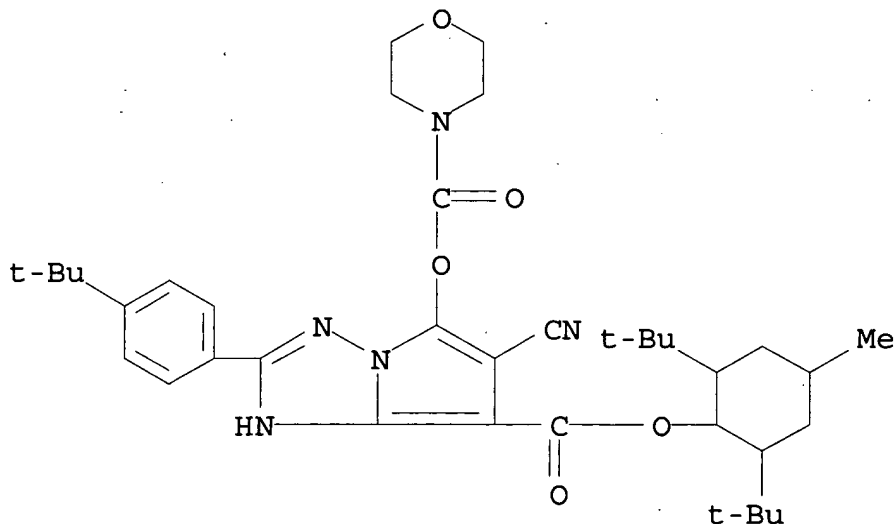
RN 184773-62-4 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-5-[(4-morpholinylcarbonyl)oxy]-2-[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-,
2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
NAME)



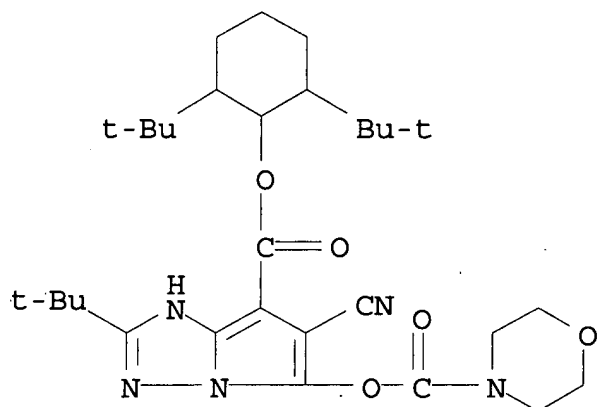
RN 188745-52-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[(4-
morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-
methylcyclohexyl ester (9CI) (CA INDEX NAME)



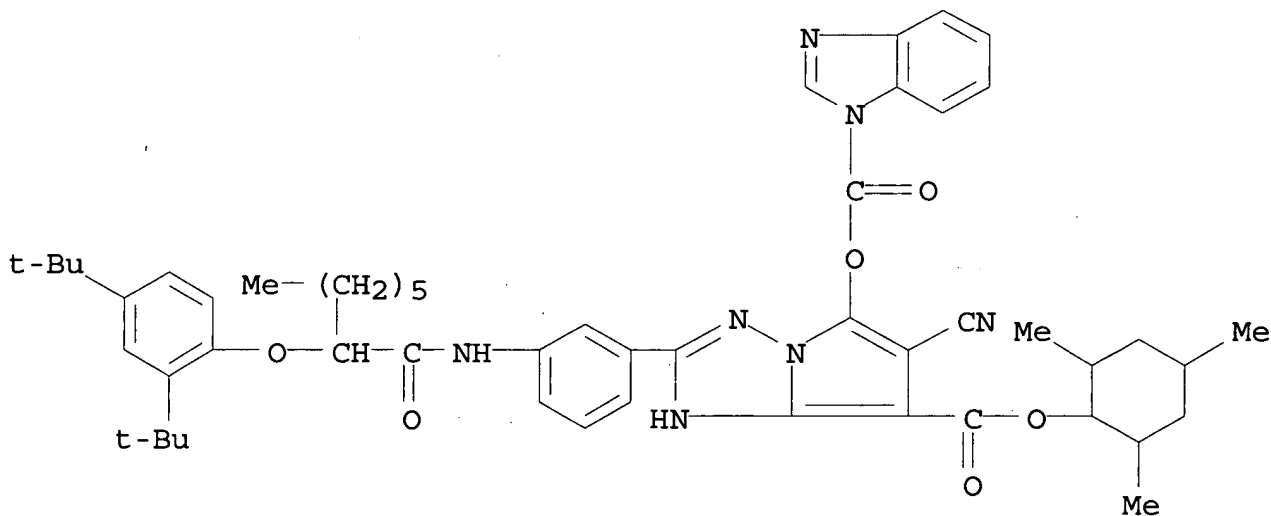
RN 202927-10-4 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-(1,1-dimethylethyl)-5-[(4-morpholinylcarbonyl)oxy]-,
2,6-bis(1,1-dimethylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



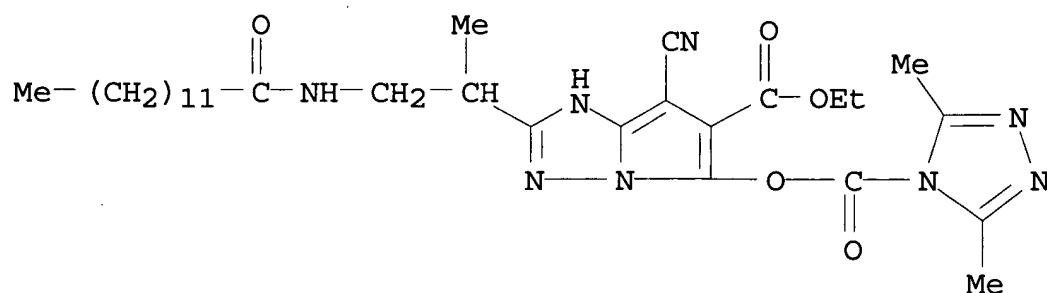
RN 202927-11-5 HCA

CN 1H-Benzimidazole-1-carboxylic acid, 2-[3-[[2-[2,4-bis(1,1-dimethylethyl)phenoxy]-1-oxooctyl]amino]phenyl]-6-cyano-7-[[[(2,4,6-trimethylcyclohexyl)oxy]carbonyl]-1H-pyrrolo[1,2-b][1,2,4]triazol-5-yl ester (9CI) (CA INDEX NAME)

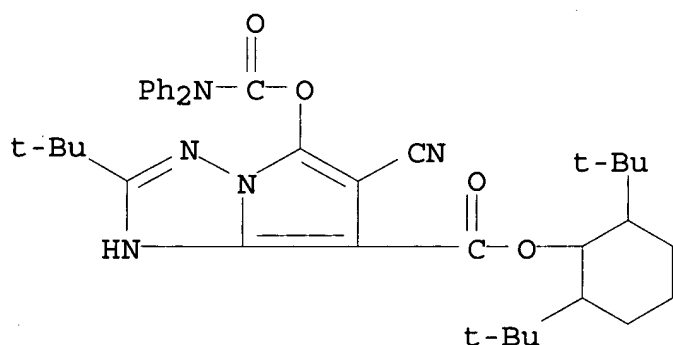


RN 202927-12-6 HCA

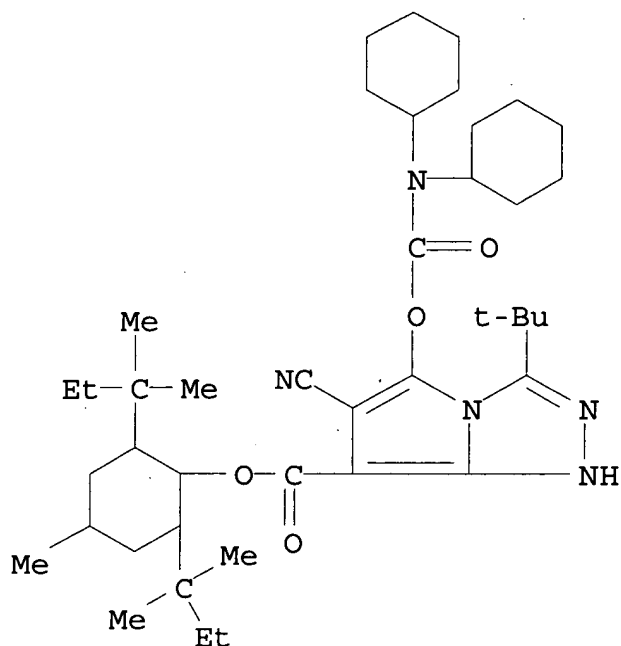
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid, 7-cyano-5-[[[(3,5-dimethyl-4H-1,2,4-triazol-4-yl)carbonyl]oxy]-2-[1-methyl-2-[(1-oxotridecyl)amino]ethyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 202927-13-7 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-(1,1-dimethylethyl)-5-[[[(diphenylamino)carbonyl]oxy]-,
 2,6-bis(1,1-dimethylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

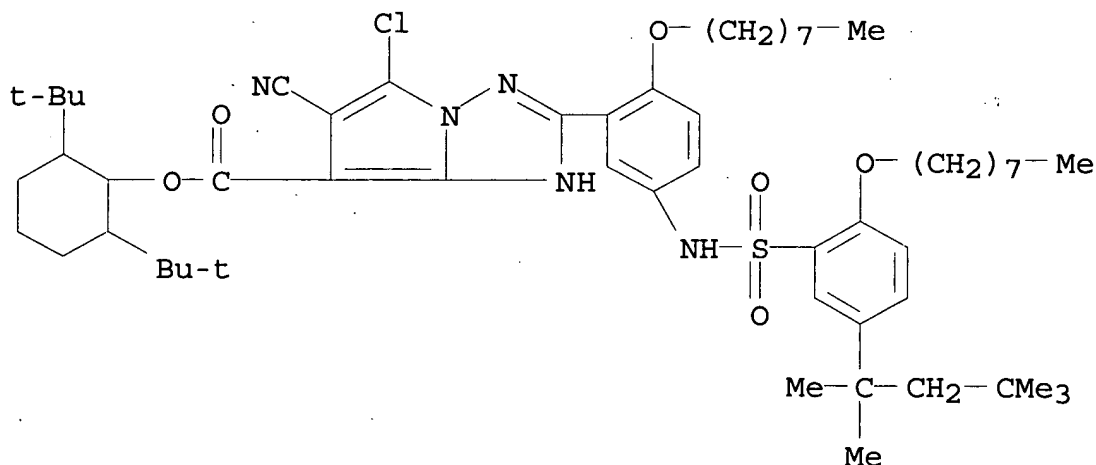


RN 202927-14-8 HCA
 CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-7-carboxylic acid,
 6-cyano-5-[[[(dicyclohexylamino)carbonyl]oxy]-3-(1,1-dimethylethyl)-,
 2,6-bis(1,1-dimethylpropyl)-4-methylcyclohexyl ester (9CI) (CA
 INDEX NAME)



RN 202927-15-9 HCA

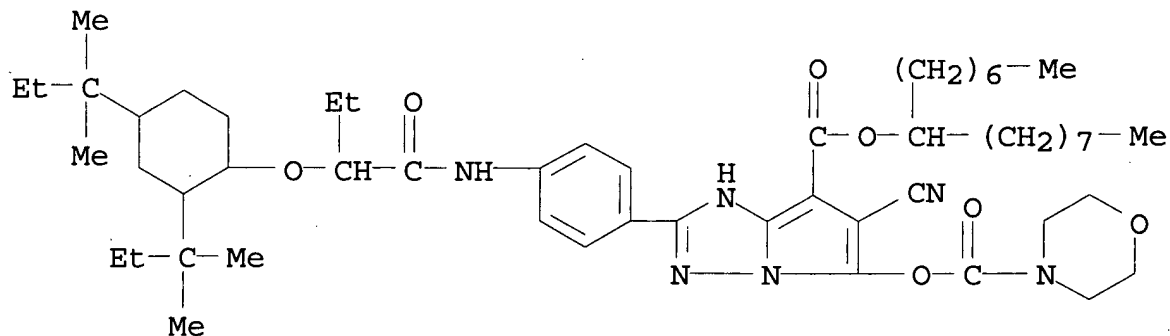
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-chloro-6-cyano-2-[2-(octyloxy)-5-[[[2-(octyloxy)-5-(1,1,3,3-
 tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-,
 2,6-bis(1,1-dimethylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



RN 202927-16-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[4-[[2-[[2,4-bis(1,1-dimethylpropyl)cyclohexyl]oxy]-1-
 oxobutyl]amino]phenyl]-6-cyano-5-[(4-morpholinylcarbonyl)oxy]-,

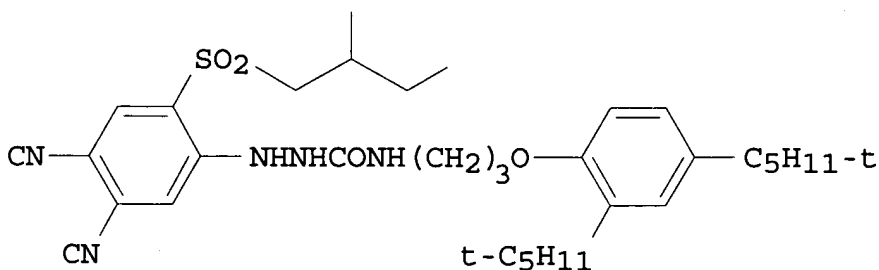
1-heptylnonyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38
 ICS G03C001-00; G03C001-035; G03C001-09; G03C001-12; G03C005-08;
 G03C007-00
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)
 IT 178744-03-1 184773-62-4 188745-52-0
 202927-10-4 202927-11-5 202927-12-6
 202927-13-7 202927-14-8 202927-15-9
 202927-16-0
 (coupler; color photog. material having red-sensitive layer with
 some blue/green sensitivity for scanning-mode processing)

L65 ANSWER 9 OF 21 HCA COPYRIGHT 2005 ACS on STN
 126:310423 Silver halide photographic material containing silver
 chloride-dominant tabular grains and developing agent. Yamashita,
 Seiji; Nakamura, Takemare; Nakamura, Koichi (Fuji Photo Film Co Ltd,
 Japan). Jpn. Kokai Tokkyo Koho JP 09061960 A2 19970307
 Heisei, 41 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
 1996-155741 19960617. PRIORITY: JP 1995-171602 19950615.

GI



I

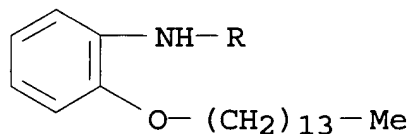
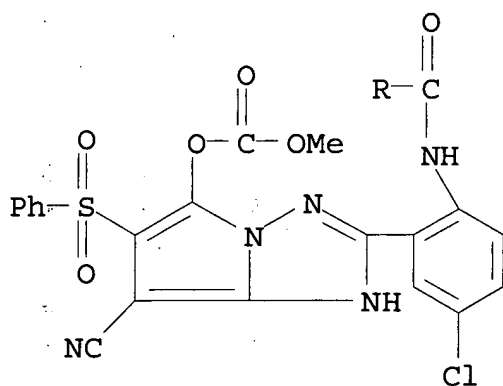
AB Claimed photog. material contains (1) tabular grains with the aspect ratio of .gtoreq.2 and contg. .gtoreq.20 mol.% of AgCl in the amt. of .gtoreq.50 % of total projected area, (2) a developing agent and (3) a compd. forming a dye in the developing process. The material has high **speed** and is processed with a small amt. of replenishment, generating little amt. of waste discharge. It provides an image comprising silver and dye by a 90 s rapid process, and suitably used for x-ray diagnostic purposes. Thus, a medical x-ray film having Ag(Br,Cl) emulsion layers on both sides of polyethylene terephthalate support and contg. a developing agent (I) and 1-(1-phenoxy-1-cyano-acetoamino)-2-chloro-5-n-dodecyloxycarbonyl-(benzene) (coupler) had the mentioned advantage when developed with hydroquinone-free soln. contg. 1-phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidine (pH 12).

IT 182297-38-7

(coupler; high-**speed** and low-replenishment photog. material contg. silver chloride-dominant tabular grains)

RN 182297-38-7 HCA

CN Carbonic acid, 2-[5-chloro-2-[[[2-(tetradecyloxy)phenyl]amino]carbonyl]amino]phenyl]-7-cyano-6-(phenylsulfonyl)-1H-pyrrolo[1,2-b][1,2,4]triazol-5-yl methyl ester (9CI) (CA INDEX NAME)



IC ICM G03C001-42

ICS G03C001-00; G03C001-035; G03C001-46; G03C005-17; G03C005-26; G03C007-32; G21K004-00

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT **Photographic couplers**

Radiographic films

(high-speed and low-replenishment photog. material
contg. silver chloride-dominant tabular grains)

IT 63149-13-3 99661-33-3 111130-66-6 152827-98-0
182297-38-7 189224-00-8 189224-01-9 189224-02-0
189224-03-1 189224-04-2 189224-05-3

(coupler; high-speed and low-replenishment photog.
material contg. silver chloride-dominant tabular grains)

IT 182297-11-6 189223-96-9 189223-98-1
(developing agent; high-speed and low-replenishment
photog. material contg. silver chloride-dominant tabular grains)

IT 182296-98-6P 182297-00-3P 182297-04-7P 182297-13-8P
183130-83-8P 189223-97-0P

(developing agent; high-speed and low-replenishment
photog. material contg. silver chloride-dominant tabular grains)

IT 58666-90-3P 182296-77-1P 182296-79-3P 182296-81-7P
182296-83-9P 182296-85-1P 182296-87-3P 182296-90-8P
182296-93-1P

(hydrazine compds. from; for high-speed and
low-replenishment photog. material)

IT 110-78-1, Propylisocyanate 302-01-2, Hydrazine, reactions
613-94-5 1878-18-8 1885-14-9, Phenylchlorocarbonate 5188-07-8,
Sodium methylmercaptan 61053-26-7 139152-08-2,
1,2-Dichloro-4,5-dicyanobenzene 154136-31-9 182626-16-0
189223-99-2

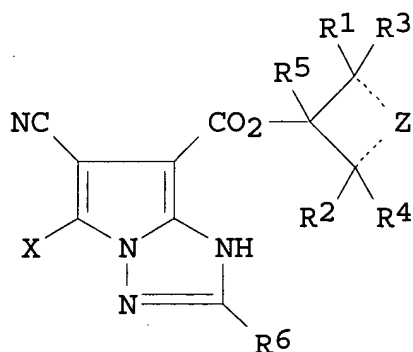
(hydrazine compds. from; for high-speed and
low-replenishment photog. material)

L65 ANSWER 10 OF 21 HCA COPYRIGHT 2005 ACS on STN

123:97720 **Silver halide color photographic**

material.. Matsuoka, Koushin; Shimada, Yasuhiro; Yoneyama, Hiroyuki
(Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 628867 A1
19941214, 87 pp. DESIGNATED STATES: R: DE, FR, GB, NL.
(English). CODEN: EPXXDW. APPLICATION: EP 1994-108697 19940607.
PRIORITY: JP 1993-163254 19930608.

GI



AB A Ag halide color photog. material comprises a support having provided thereon .gtoreq.1 layer contg. .gtoreq.1 cyan coupler I [R1 and R2 each = a substituent except Me group; R3, R4, R5 and R6 each = a H atom or a substituent; Z = a nonmetallic atom or a nonmetallic at. group necessary for forming a ring and the nonmetallic at. group of Z may optionally be substituted by substituent(s); and X = a H atom, or a group of splitting off from the formula by coupling reaction with an oxidn. product of an arom. primary amine color developing agent]. The material provides excellent color hue without color fluctuation.

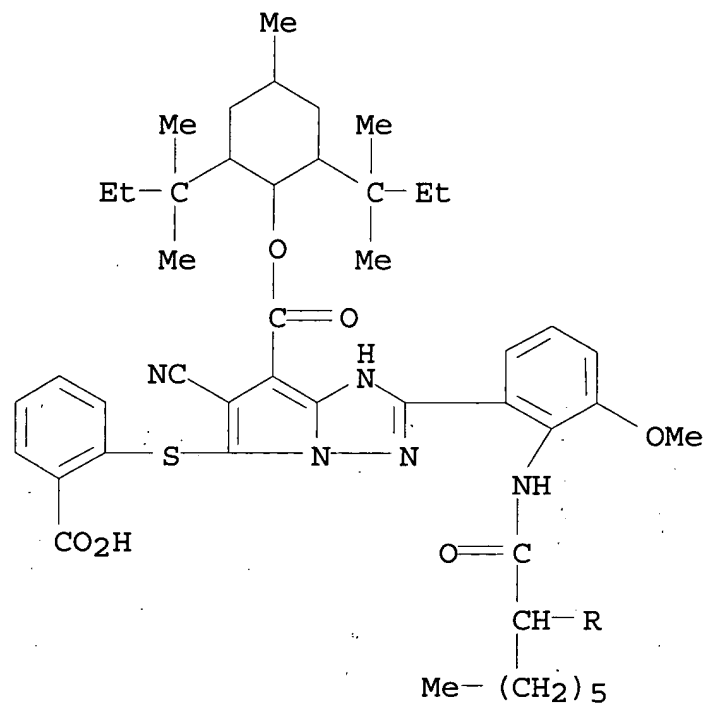
IT 165178-20-1

(cyan coupler; photog material with excellent color hue without color fluctuation)

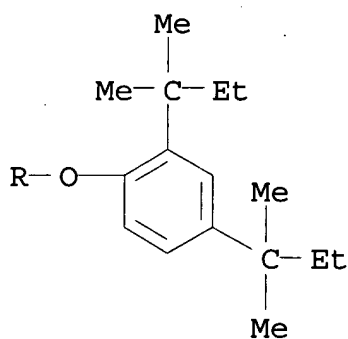
RN 165178-20-1 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxooctyl]amino]-3-methoxyphenyl]-5-[(2-carboxyphenyl)thio]-6-cyano-, 7-[2,6-bis(1,1-dimethylpropyl)-4-methylcyclohexyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM G03C007-38
 ICS C07D487-04
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 Section cross-reference(s): 41
 ST **photog** coupler cyan
 IT **Photographic** couplers

(cyan, **photog** material with excellent color hue without color fluctuation)

IT 165178-17-6 165178-18-7 165178-19-8 **165178-20-1**
165178-21-2 165178-22-3 165337-56-4 165337-57-5

(cyan coupler; **photog** material with excellent color hue without color fluctuation)

IT 165178-13-2P 165178-14-3P
(cyan coupler; **photog** material with excellent color hue without color fluctuation)

IT 165178-15-4P 165178-16-5P
(**photog** material with excellent color hue without color fluctuation)

L65 ANSWER 11 OF 21 HCA COPYRIGHT 2005 ACS on STN

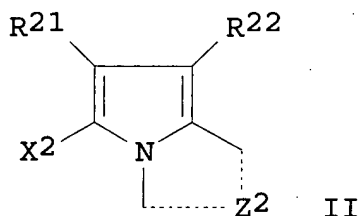
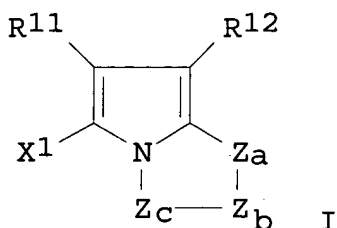
122:226648 **Silver halide color photographic**

material with high-density and superior **image** fastness.

Nakajo, Kyoshi; Obayashi, Keiji; Ichijima, Yasushi; Kawagishi, Toshio; Ooki, Nobutaka; Shimada, Yasuhiro (Fuji Photo Film Co. Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06250356 A2 **19940909**

Heisei, 108 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-54626 19930222.

GI



AB The title color **photog.** material contains compd.
A1-(Time)a-DI and(or) A2-(Time)a-DI (A1 contains a diffusion-resistant group; A2 contains no diffusion-resistant group; both A1 and A2 are able to release (Time)a-DI on reaction with an oxidized arom. primary amine developer; Time is a timing group capable of cleaving DI after released from A1 or A2; DI is a developer suppressor; a = 1, 2; 2 (Time) may be same or different when a = 2) and a cyan coupler I and(or) II (Za = NH, CHR13; Zb, Zc = C(R14), N; R11-13 = electron-attracting group of Hammett's substituent const. $\sigma_p \geq 0.2$ with the sum of σ_p for R11 and R12 being ≥ 0.65 ; R14, R21 = H, substituent; R22 = substituent; Z2 = non-metallic atoms required to form N-contg. 6-membered heterocycle that has at least a releasing group; X1, X2 = H, group releasable on reaction with an oxidized arom. primary amine

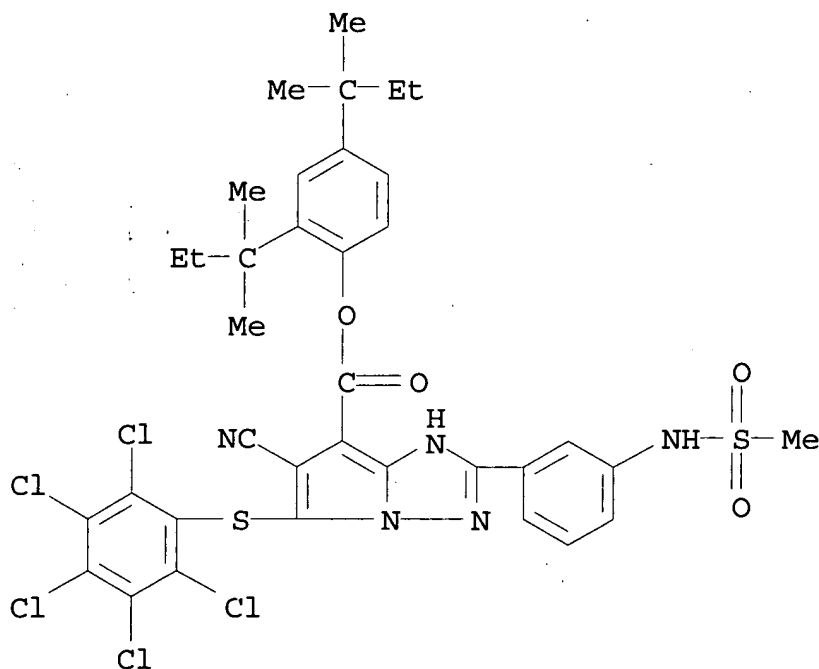
developer).

IT 162006-31-7

(cyan coupler with DIR compd. contained in color **photog**
film)

RN 162006-31-7 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[3-[(methylsulfonyl)amino]phenyl]-5-
[(pentachlorophenyl)thio]-, 2,4-bis(1,1-dimethylpropyl)phenyl ester
(9CI) (CA INDEX NAME)



IC ICM G03C007-305

ICS C07D487-04; G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST color **photog** material cyan coupler; development inhibitor
releasing compd **photog** material

IT **Photographic** couplers

(cyan coupler with DIR compd. contained in **photog**.
film)

IT **Photographic** films

(color, contg. specified DIR compd. and cyan coupler)

IT	143150-16-7	144291-03-2	150307-10-1	160508-28-1	160544-71-8
	161004-11-1	161004-14-4	161004-15-5	161004-18-8	161004-19-9
	161004-20-2	161004-23-5	161069-19-8	161069-33-6	161069-37-0
	161069-41-6	161069-42-7	161098-44-8	161098-47-1	162006-25-9
	162006-26-0	162006-27-1			

(DIR compd. with cyan coupler contained in color **photog**
. film)

IT	87947-03-3	105488-33-3	105504-92-5	119204-27-2	121605-08-1
	121941-10-4	122415-86-5	123472-12-8	139981-57-0	148010-47-3
	149309-79-5	152962-25-9	156233-78-2	156233-79-3	162006-35-1
	162006-36-2	162006-37-3	162006-38-4	162006-39-5	

(bleaching promoter releasing compd. contained in color
photog. film)

IT	151645-05-5	154021-50-8	154105-25-6	156740-16-8	156772-90-6
	157516-73-9	157516-78-4	157516-82-0	157578-29-5	157578-30-8
	157578-32-0	158894-70-3	162006-28-2	162006-29-3	162006-30-6
	162006-31-7	162006-32-8	162006-33-9	162006-34-0	
	162072-42-6				

(cyan coupler with DIR compd. contained in color **photog**
. film)

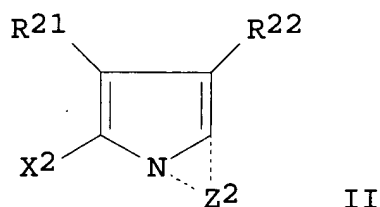
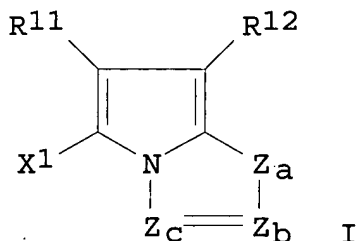
L65 ANSWER 12 OF 21 HCA COPYRIGHT 2005 ACS on STN

122:68175 **Silver halide color photographic**

material with high sensitivity and pressure resistance. Kobayashi, Hidetoshi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06118587 A2 **19940428** Heisei, 67 pp. (Japanese).

CODEN: JKXXAF. APPLICATION: JP 1992-288153 19921005.

GI



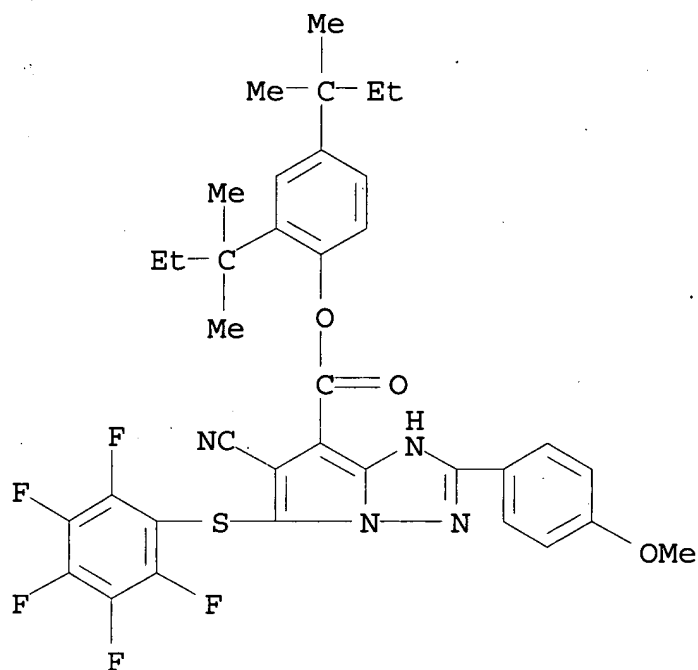
AB In the title **photog.** material comprising .gtoreq.1 photosensitive **Ag halide** emulsion layer on a support, .gtoreq.50% of projected area is caused by tabular **Ag halide** grains with the aspect ratio of .gtoreq.2 and with dislocations, and .gtoreq.1 of hydrophilic colloidal layer contains .gtoreq.1 cyan coupler, I or II [Za = NH, CH(R13); Zb, Zc = C(R14):, N:; R11-13 = electron-accepting group; R14, R21 = H, substituent; R22 = substituent; Z2 = nonmetallic group forming N-contg. 6-membered group; X1,2 = H, coupling-off group released upon reaction with oxidized arom. primary amine developing agent].

IT **156042-99-8**

(cyan coupler; hydrophilic colloidal layers of **photog.**

materials)

RN 156042-99-8 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-(4-methoxyphenyl)-5-[(pentafluorophenyl)thio]-,
 2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)

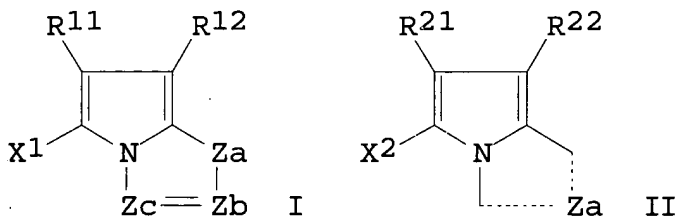


IC ICM G03C007-38
 ICS G03C001-035
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST **silver halide** color **photog** material;
 cyan coupler color **photog** material
 IT **Photographic** emulsions
 (color, hydrophilic colloidal layers of **photog**.
 materials)
 IT **Photographic** couplers
 (cyan, hydrophilic colloidal layers of **photog**.
 materials)
 IT 151645-19-1 154105-16-5 155926-20-8 **156042-99-8**
 156262-24-7 159082-05-0 159922-70-0 159922-71-1
 (cyan coupler; hydrophilic colloidal layers of **photog**.
 materials)
 IT 156233-85-1
 (cyan coupler; **silver halide** color
photog. material)
 IT 151645-01-1P

- (cyan coupler; **silver halide color photog.** material)
- IT 159922-69-7
(cyan coupler; **silver halide color photog.** material with high sensitivity and pressure resistance)
- IT 54153-51-4
(**silver halide color photog.** material)
- IT 150172-54-6P
(**silver halide color photog.** material)

L65 ANSWER 13 OF 21 HCA COPYRIGHT 2005 ACS on STN
121:289503 **Silver halide color photographic**
materials with excellent color reproducibility. Obayashi, Keiji;
Kawagishi, Toshio; Shimada, Yasuhiro (Fuji Photo Film Co Ltd,
Japan). Jpn. Kokai Tokkyo Koho JP 06067385 A2 **19940311**
Heisei, 110 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
1992-236333 19920813.

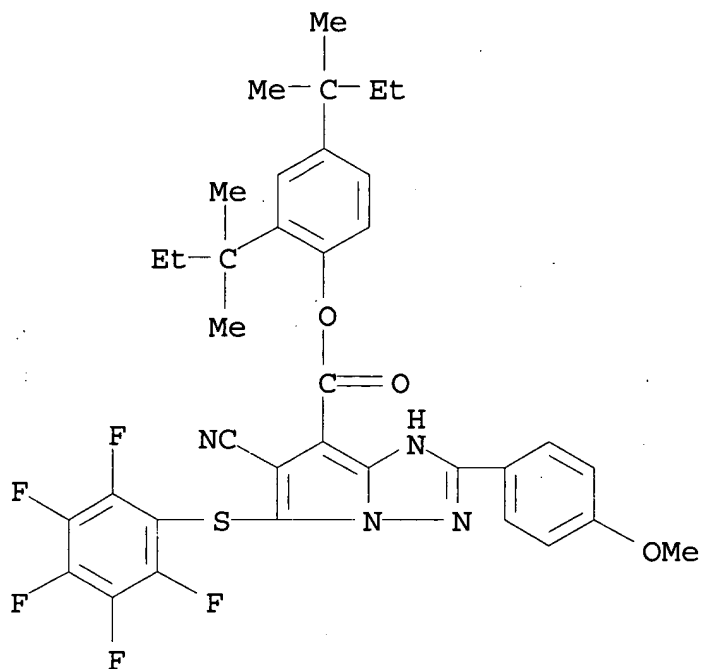
GI



- AB In the title **photog.** materials having a red-sensitive **Ag halide** emulsion layer contg. a cyan coupler, a green-sensitive **Ag halide** emulsion layer contg. a magenta coupler, and a blue-sensitive **Ag halide** emulsion layer contg. a yellow coupler on a support, .gtoreq.1 of said **Ag halide** emulsion layers contains a cyan coupler represented by I and II, and the **photog.** materials contain a compd., A-X [A = group releasing X upon reaction with oxidized developing agent and simultaneously forming a compd. sol. in a processing soln. or forming a color erasing compd.; X = precursor residue of developing inhibitor], releasing a precursor of a development inhibitor.

- IT 156042-99-8
(cyan coupler; **silver halide color photog.** materials with excellent color reproducibility)

RN 156042-99-8 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-(4-methoxyphenyl)-5-[(pentafluorophenyl)thio]-,
 2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38
 ICS G03C001-83; G03C007-305
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST cyan coupler color **photog** material; **silver**
halide color **photog** material
 IT **Photographic** emulsions
 (color, **silver halide photog.**
 materials with excellent color reproducibility)
 IT **Photographic** couplers
 (cyan, **silver halide** color **photog.**
 materials with excellent color reproducibility)
 IT 144266-85-3 151645-02-2 151645-05-5 152828-30-3 154105-16-5
 154105-22-3 154105-26-7 **156042-99-8** 157886-04-9
 158035-35-9 158894-70-3 158894-71-4 158894-72-5 158894-73-6
 (cyan coupler; **silver halide** color
photog. materials with excellent color reproducibility)
 IT 146822-29-9P 150172-54-6P 151019-65-7P 151019-75-9P
 151019-76-0P
 (cyan coupler; **silver halide** color
photog. materials with excellent color reproducibility)

IT 106361-15-3 115716-62-6 157187-88-7 157187-89-8 157187-91-2
 157187-93-4 157187-96-7 157187-97-8 157187-99-0 157188-00-6
 157232-61-6 157232-62-7

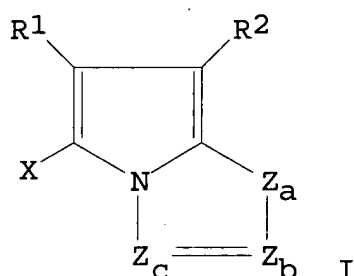
(silver halide color photog.
 material with excellent color reproducibility)

L65 ANSWER 14 OF 21 HCA COPYRIGHT 2005 ACS on STN

121:289475 Silver halide color photographic

material and its processing. Obayashi, Keiji; Shimada, Yasuhiro
 (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06003784
 A2 19940114 Heisei, 62 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1992-185770 19920622.

GI



AB In the title full color photog. material, the dry film thickness of whose whole hydrophilic colloid layer on exposing side of its support is $\leq 2.2 \mu\text{m}$, ≥ 1 pyrroloazole cyan coupler I ($Z_a = \text{NH}$, CHR_3 ; $Z_b, Z_c = \text{CR}_4, \text{N}$; R_1-3 = electron attractive group of Hammett's σ_p value ≥ 0.20 ; the σ_p sum of R_1 and R_2 is ≥ 0.65 ; $R_4 = \text{H}$, substituent; multi R_4 may be same or different; X = group releasable on reaction with an oxidized developer; when R_1-4 or X is a divalent group, the mol. can be polymer) is contained. The processing of the photog. material includes color developing with an arom. primary amine developer, desilvering, rinsing and(or) stabilizing, wherein the color developing is carried out in less than 150 s. The photog. material shows superior coloring property, fastness, color reproducibility, processing stability and esp. desilvering property.

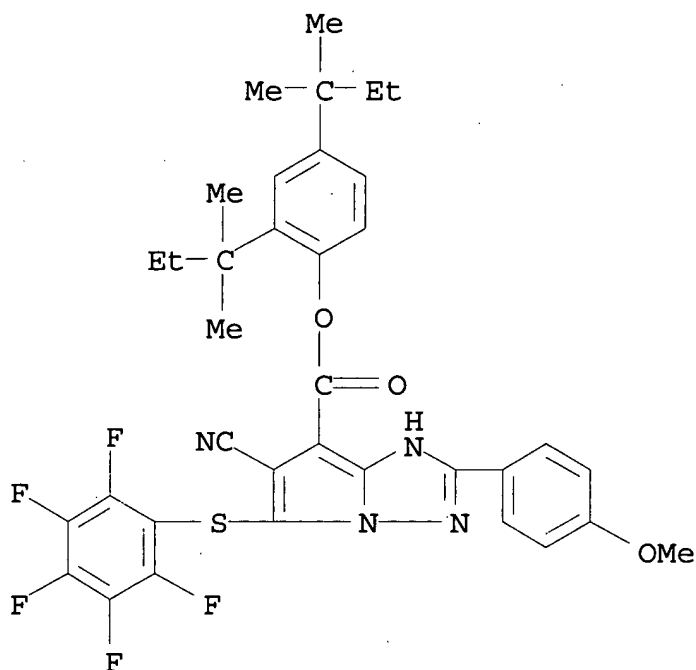
IT 156042-99-8P

(prepn. and use of, as cyan coupler, color photog.
 material using)

RN 156042-99-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,

6-cyano-2-(4-methoxyphenyl)-5-[(pentafluorophenyl)thio]-,
2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)



- IC ICM G03C007-38
ICS G03C007-26; G03C007-407
- CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
- ST **photog** material pyrroloazole cyan coupler
- IT **Photographic** processing
(rapid)
- IT **Photographic** films
(color, contg. pyrroloazole cyan coupler)
- IT **Photographic** couplers
(cyan, pyrroloazole)
- IT 152828-30-3 154021-48-4 154021-49-5 154021-50-8 155926-16-2
158035-28-0 158035-29-1 158035-30-4
(cyan coupler, color **photog.** material using)
- IT 146822-29-9P 151019-75-9P 151019-76-0P
(prepn. and reaction of, cyan coupler from, for **photog.**
material)
- IT 151019-65-7P 152828-32-5P 153004-06-9P 154021-52-0P
154021-57-5P 154021-60-0P 154021-61-1P 154021-62-2P
154021-64-4P 155926-17-3P **156042-99-8P** 158035-31-5P
158035-32-6P 158035-33-7P 158035-34-8P
(prepn. and use of, as cyan coupler, color **photog.**

material using)

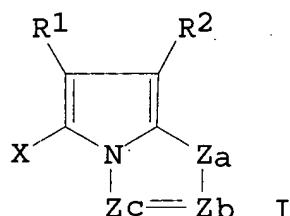
IT 2425-77-6 2905-62-6, 3,5-Dichloro benzoyl chloride 154021-47-3
(reaction of, cyan coupler from, for **photog.** material)

L65 ANSWER 15 OF 21 HCA COPYRIGHT 2005 ACS on STN

121:267613 **Silver halide color photographic**

material. Ootani, Shigeaki (Fuji Photo Film Co Ltd, Japan). Jpn.
Kokai Tokkyo Koho JP 05333500 A2 19931217 Heisei, 107 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1992-165481 19920602.

GI



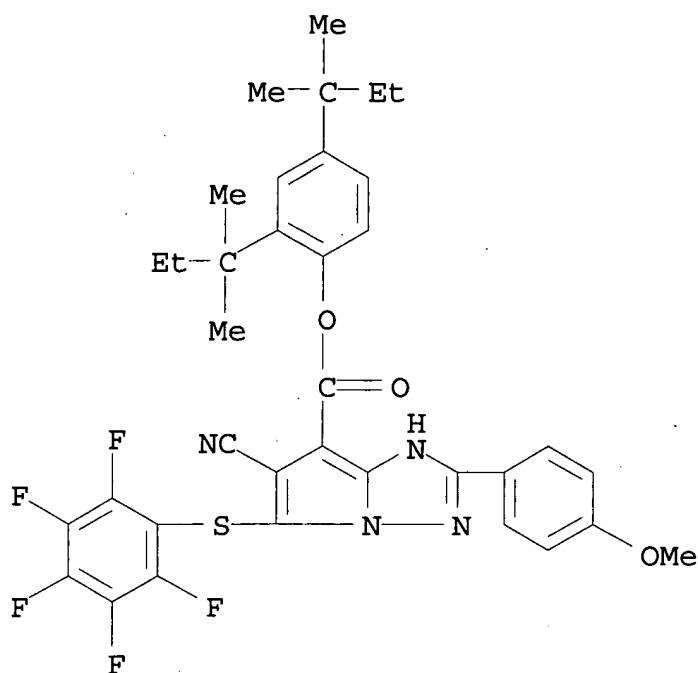
AB In the title full color **photog.** material having .gtoreq.1
each color sensitive **Ag halide** emulsion layer,
.gtoreq.1 of the cyan coloring layer(s) contains .gtoreq.1 pyrrolo
azole cyan coupler I (Za = NH, CHR₃; Zb, Zc = CR₄, N; R₁₋₃ =
electron attractive group of Hammett's .sigma.p value .gtoreq.0.20;
the .sigma.p sum of R₁ and R₂ is .gtoreq.0.65; R₄ = H, substituent;
multi R₄ may be same or different; X = group releasable on reaction
with an oxidized developer; when R₁₋₄ or X is a divalent group, the
mol. can be a polymer), and **AgCl** 95 mol%-contg.
AgCl(Br) or **AgCl** emulsion particles spectrally
sensitized by .gtoreq.1 sensitizing dye of redn. potential equal or
smaller than -1.27V(vs SCE). The **photog.** material can be
rapid processed with improved sensitivity change.

IT 156042-99-8

(cyan coupler, **photog.** material using)

RN 156042-99-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-(4-methoxyphenyl)-5-[(pentafluorophenyl)thio]-,
2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)



- IC ICM G03C007-38
ICS G03C001-035; G03C001-12; G03C001-20
- CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
- ST **photog** material pyrrolo azole cyan coupler; sensitizing
dye **photog** material
- IT **Photographic** paper
(contg. pyrrolo azole cyan coupler and high content
silver chloride)
- IT **Photographic** sensitizers
(redn. potential specified)
- IT **Photographic** couplers
(cyan, pyrrolo azole)
- IT 152828-30-3 152828-31-4 154021-52-0 154021-53-1 154021-59-7
154021-60-0 155926-12-8 **156042-99-8** 158035-35-9
158320-34-4 158320-35-5 158320-36-6 158320-37-7 158320-38-8
158320-39-9 158320-40-2 158320-41-3 158825-81-1
(cyan coupler, **photog.** material using)
- IT 146822-29-9P 151019-75-9P 151019-76-0P
(prepn. and reaction of, cyan coupler from, for **photog.**
material)
- IT 151019-65-7P
(prepn. of, as cyan coupler, for **photog.** material)
- IT 2425-77-6 2905-62-6, 3,5-Dichloro benzoyl chloride 154021-47-3

(reaction of, cyan coupler from, for **photog.** material)

IT 20185-07-3 27934-51-6 63737-55-3 99131-52-9 100780-71-0
 100834-87-5 117633-60-0 119056-67-6 122341-62-2 144675-43-4
 146486-82-0 146486-83-1 155329-65-0 158320-42-4 158320-43-5
 158320-44-6 158320-46-8 158320-48-0 158320-49-1

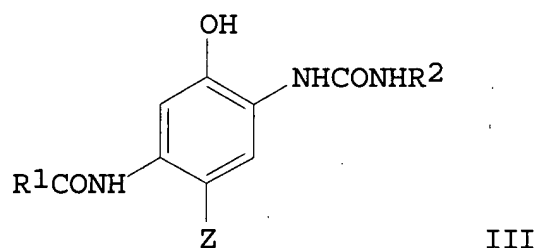
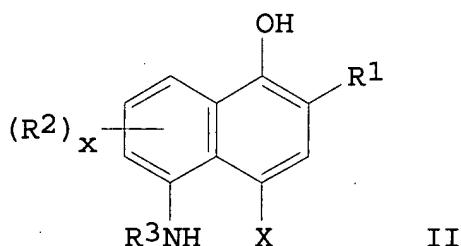
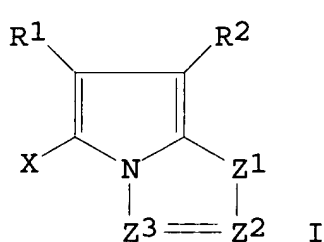
(sensitizing dye, **photog.** material using)

L65 ANSWER 16 OF 21 HCA COPYRIGHT 2005 ACS on STN

121:241587 **silver halide color photographic**

material. Obayashi, Keiji; Shimada, Yasuhiro (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06019090 A2 **19940128**
 Heisei, 89 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
 1992-195877 19920701.

GI



AB A **silver halide color photog.** material showing good color formation and providing color **images** with improved fastness using a color developer with reduced replenishment comprises, on a support, .gtoreq.1 **silver halide** emulsion layer contg. a cyan coupler represented by the formula I (Z1 = NH or CHR3; Z2, Z3 = CR4 or N; R1, R2, R3 = an electron-accepting group having a Hammett's substituent const. .sigma.p of .gtoreq.0.20 with the sum of the .sigma.p values for R2 and R3 being .gtoreq.0.65; R4 = H or a substituent group; X = H or a group releasable upon reaction with an oxidized arom. primary amine developer) and a coupler represented by the formula II (R1 = CONR4R5, SO2NR4R5, NHCOR4, NHCO2R6, NHSO2R6, NHCONR4R5, or NHSO2NR4R5; R2 = a substituent group; R3 = H or a group releasable

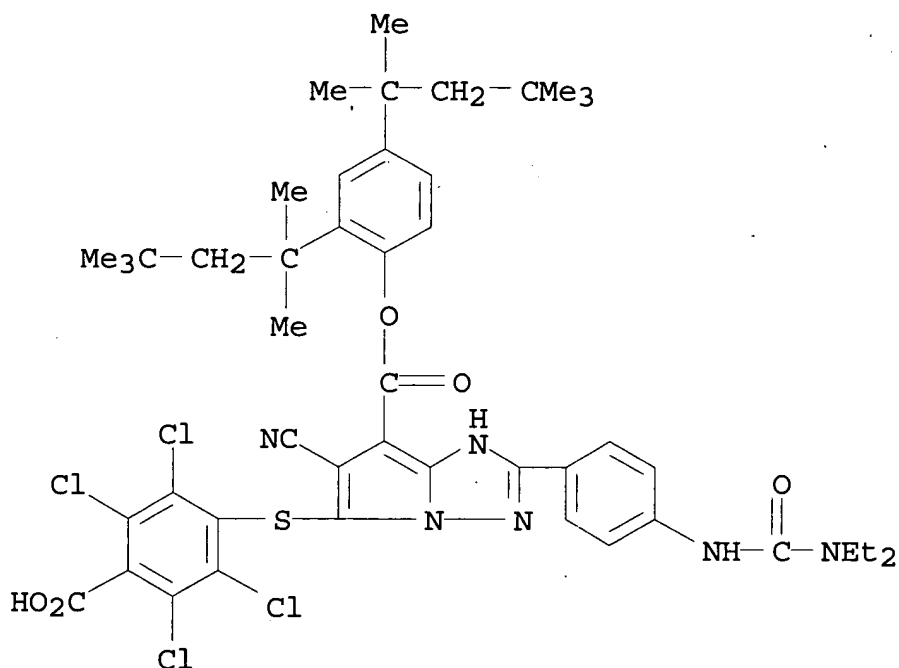
upon reaction with an oxidized arom. primary amine developer; R4, R5 = H, alkyl, aryl, or heterocyclyl; R6 = alkyl, aryl, or heterocyclyl; k = an integer) or III (R1 = alkyl, aryl, or heterocyclyl; R2 = aryl; Z = H or a coupling-off group).

IT 158546-42-0

(**photog.** coupler)

RN 158546-42-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 5-[(4-carboxy-2,3,5,6-tetrachlorophenyl)thio]-6-cyano-2-[4-[[diethylamino]carbonyl]amino]phenyl]-, 7-[2,4-bis(1,1,3,3-tetramethylbutyl)phenyl] ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38

ICS G03C007-34; G03C007-407

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **silver halide** color **photog** material;
naphthol deriv **photog** coupler; acetanilide deriv
photog coupler

IT **Photographic** couplers

(acetanilide and naphthol derivs. as)

IT **Photographic** emulsions

(color, contg. acetanilide and naphthol derivs.)

IT	82684-62-6	90936-93-9	102604-67-1	103425-88-3	103576-30-3
	111244-14-5	115625-86-0	128061-03-0	137558-58-8	137580-56-4
	151019-65-7	152828-30-3	154021-48-4	154021-49-5	154021-52-0

154021-53-1	154021-58-6	154021-59-7	154021-60-0	154021-61-1
154021-62-2	154021-64-4	155926-13-9	155926-17-3	155926-18-4
156772-90-6	158035-28-0	158035-31-5	158035-32-6	158546-41-9
158546-42-0	158546-43-1	158546-44-2	158546-45-3	
158546-46-4	158546-47-5	158546-48-6	158546-49-7	158546-50-0
158546-51-1	158546-52-2	158546-53-3		

(photog. coupler)

IT 2425-77-6 2905-62-6 146822-29-9 151019-75-9 151019-76-0
154021-47-3

(photog. coupler prepn. using)

L65 ANSWER 17 OF 21 HCA COPYRIGHT 2005 ACS on STN

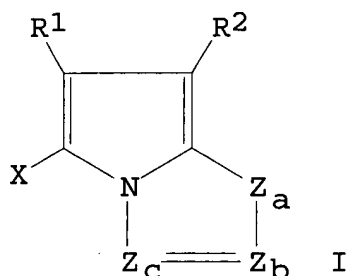
121:241574 **Silver halide color photographic**

photosensitive material. Nakagawa, Hajime; Shimada, Yasuhiro (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 05297538 A2

19931112 Heisei, 73 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1992-121080 19920416.

GI



AB The title material contains .gtoreq.1 kind(s) of cyan couplers I (Za = NH, CHR3; Zb, Zc = CR4, N; R1-3 = electron-withdrawing group having a Hammett's substituent const. .sigma.p >0.20; the sum of the .sigma.p values of R1 and R2 is >0.65; R4 = H, substrate, if there are >2 of R4 they may be the same or different; X = H, group to be eliminated upon coupling; R1-4 or X may become a divalent group and bond with a polymer which is larger than a dimer or a polymer chain to form a homopolymer or a copolymer) and .gtoreq.1 kind(s) of development inhibitor-releasing couplers A-{(L1)a-(B)m}p-(L2)n-DI [A = group which splits {(L1)a-(B)m}p-(L2)n-DI upon reaction with an oxidized arom. primary amine developing agent; L1 = group which splits the bond at its right side (the bond with (B)n) after breaking the bond at its left side; B = group which splits the bond at its right side upon reaction with an oxidized developing agent; L2 = group which splits the bond at its right side (the bond with

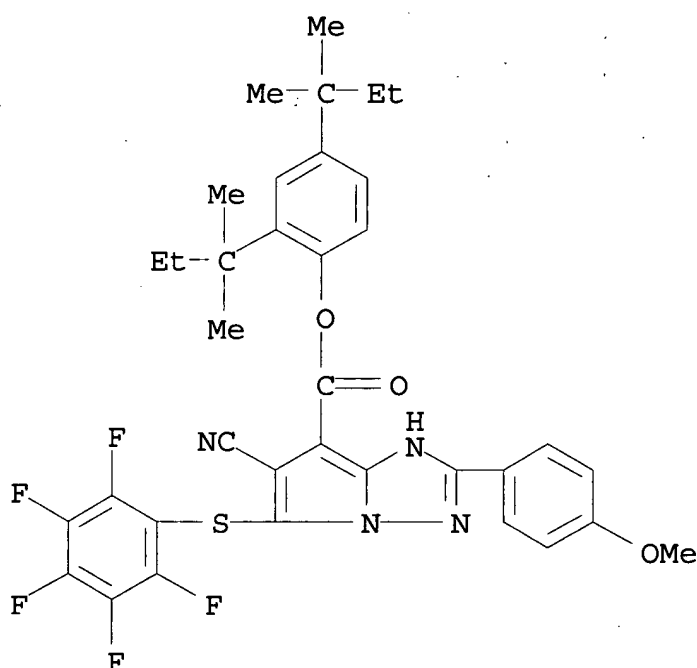
DI) after breaking the bond at its left side; DI = development inhibitor; a, m, n = 0, 1; p = 0-2, when p is plural (L1)a-(B)m may be the same or different]. The material shows good color reproducibility and superior shelf life.

IT 156042-99-8

(cyan **photog.** coupler, for good color reproducibility)

RN 156042-99-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-(4-methoxyphenyl)-5-[(pentafluorophenyl)thio]-, 2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38

ICS G03C007-305

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST silver color **photog** photosensitive material; cyan **photog** coupler; development inhibitor releasing **photog** coupler

IT **Photographic** development
(inhibitor-releasing compds. for)

IT **Photographic** films
(color, with good color reproducibility and shelf life)

IT **Photographic** couplers
(cyan, for good color reproducibility and shelf life)

IT 156042-99-8 156772-91-7 158293-26-6 158293-27-7
(cyan **photog.** coupler, for good color reproducibility)

IT 72143-89-6 115750-54-4 125981-35-3 156343-05-4 158372-16-8
158372-17-9

(**photog.** development inhibitor-releasing coupler)

IT 146822-29-9P 151019-75-9P

(prepn. and reaction of, for cyan **photog.** coupler)

IT 151019-65-7P

(prepn. and use of, as cyan **photog.** coupler for good color reproducibility)

L65: ANSWER 18 OF 21 HCA COPYRIGHT 2005 ACS on STN

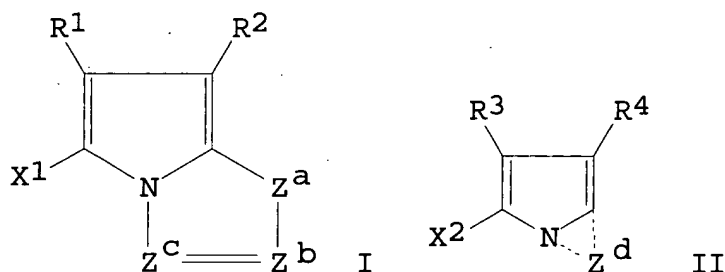
121:191120 **silver halide** color **photographic**

material. Kobayashi, Hidetoshi (Fuji Photo Film Co Ltd, Japan).

Jpn. Kokai Tokkyo Koho JP 05341467 A2 19931224 Heisei, 65

pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1992-175064 19920610.

GI



AB A **silver halide** color **photog.** material with high sensitivity and suppressed fog after imagewise exposure comprises .gtoreq.1 **silver halide** emulsion layer contg. Se-sensitized **silver halide** grains and .gtoreq.1 cyan coupler represented by the formula I or II (Z^a = NH or CHR⁵; Z^b , Z^c = N or CR⁶; R¹, R², R⁵ = an electron-attracting group having a Hammett's substituent const. (σ_p) .gtoreq.0.2 with the sum of σ_p for R¹ and R² being .gtoreq.0.65; R³, R⁶ = H or a substituent group; R⁴ = a substituent group; Z^d = a nonmetallic group for forming a 6-membered heterocyclic ring contg. .gtoreq.1 dissocg. group; X¹, x² = H or a group releasable upon reaction with an oxidized arom. primary amine developing agent).

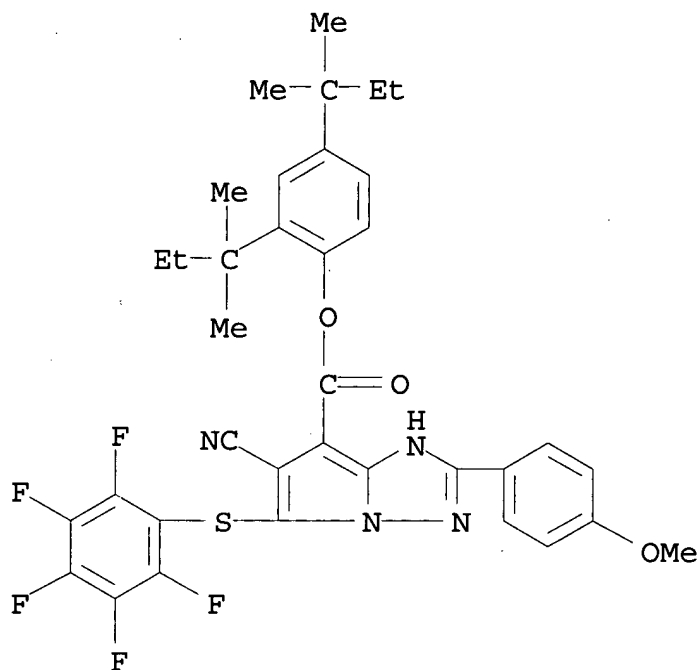
IT 156042-99-8

(cyan **photog.** coupler, for forming dye **images** with suppressed fog formation)

RN 156042-99-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,

6-cyano-2-(4-methoxyphenyl)-5-[(pentafluorophenyl)thio]-,
2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38
ICS G03C001-09

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST **silver halide** color **photog** material;
pyrroloazole cyan **photog** coupler

IT **Photographic** emulsions
(selenium-sensitized, contg. pyrroloazoles)

IT **Photographic** couplers
(cyan, pyrroloazoles as, for forming dye **images** with
suppressed fog formation)

IT 2651-89-0 3878-44-2 5117-16-8 5943-53-3 10061-88-8
140198-95-4 146922-05-6 157886-05-0 157886-06-1
(chem. sensitizer, for **silver halide**
photog. material)

IT 144266-85-3 151019-65-7 151645-00-0 151645-01-1 151645-05-5
151645-11-3 155494-47-6 155926-12-8 155926-16-2 155926-20-8
156042-99-8 156233-84-0 156262-24-7 156772-90-6
157516-74-0 157516-78-4 157886-01-6 157886-02-7 157886-03-8
157886-04-9
(cyan **photog.** coupler, for forming dye **images**
with suppressed fog formation)

IT 146822-29-9P 150172-54-6P 151019-75-9P 151019-76-0P

(prepn. and reaction of, in prepg. cyan **photog.**
coupler)

IT 2425-77-6 2905-62-6 3044-06-2 54153-51-4 154021-47-3
(reaction of, in prepg. cyan **photog.** coupler)

L65 ANSWER 19 OF 21 HCA COPYRIGHT 2005 ACS on STN

121:46492 **Silver halide color photographic**

light-sensitive material. Yoshioka, Yasuhiro (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 569979 A1 **19931118**, 84 pp. DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1993-107800 19930513. PRIORITY: JP 1992-146741 19920514.

AB A **silver halide color photog.**

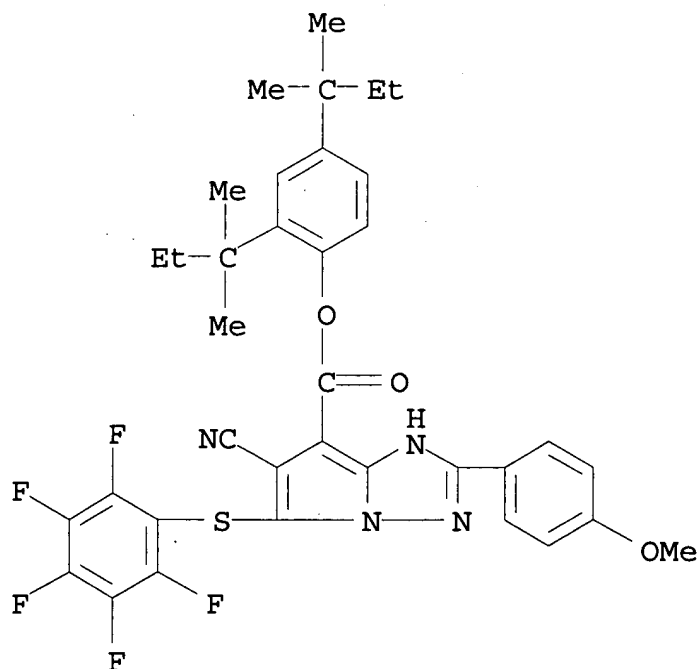
light-sensitive material contains a specific pyrroloazole-type cyan coupler and a high-boiling org. solvent selected from phosphoric esters, phosphonic esters, phosphinic esters, and phosphine oxide in a cyan dye-forming **silver halide** emulsion layer formed on a support.

IT **156042-99-8**

(cyan **photog.** coupler, high-boiling solvents for)

RN 156042-99-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-(4-methoxyphenyl)-5-[(pentafluorophenyl)thio]-, 2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)



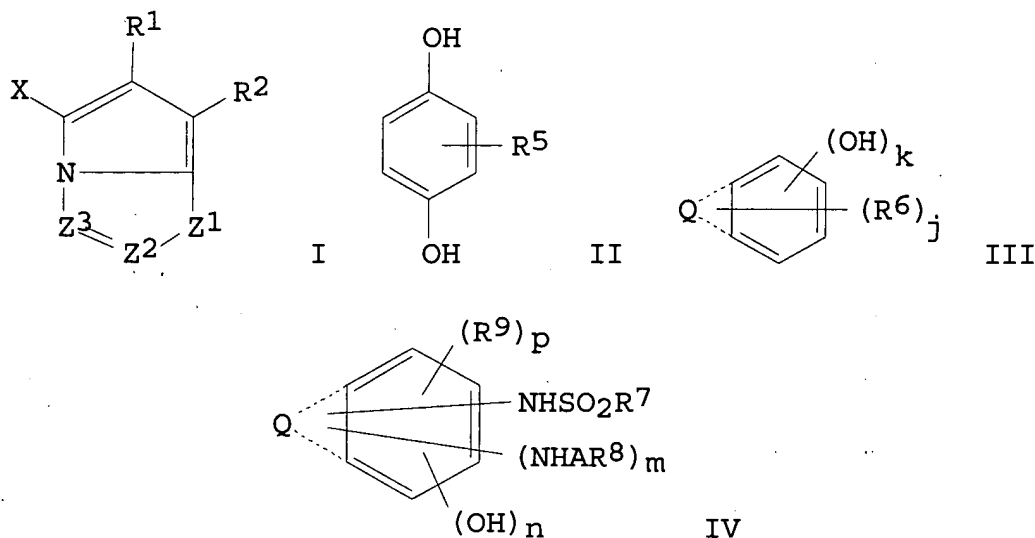
IC ICM G03C007-30

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
ST pyrroloazole cyan **photog** coupler; **silver**
halide color **photog** material; org solvent high
boiling **photog**
IT **Photographic** emulsions
(color, contg. pyrroloazole-type cyan dye formers and
high-boiling solvents)
IT **Photographic** couplers
(cyan, pyrroloazoles, high-boiling solvents for)
IT 152828-31-4 152828-32-5 152828-33-6 153004-06-9 154021-51-9
154021-52-0 154021-53-1 154021-60-0 **156042-99-8**
(cyan **photog.** coupler, high-boiling solvents for)
IT 146822-29-9P 151019-75-9P 151019-76-0P
(prepn. and reaction of, in prepg. cyan **photog.**
coupler)
IT 151019-65-7P
(prepn. of, as cyan **photog.** coupler)
IT 2425-77-6 2905-62-6 154021-47-3
(reaction of, in prepg. cyan **photog.** coupler)
IT 78-50-2 1330-78-5, Tris(methylphenyl) phosphate 1754-47-8
2528-39-4, Trihexyl phosphate 2785-32-2 3151-39-1 26967-76-0,
Tris(isopropylphenyl) phosphate 52994-10-2 93082-05-4
137321-96-1 156043-00-4 156128-23-3
(solvent, for pyrroloazole cyan **photog** couplers)

L65 ANSWER 20 OF 21 HCA COPYRIGHT 2005 ACS on STN

120:148841 **Silver halide** color **photographic**
material. Takahashi, Osamu; Ohki, Nobutaka (Fuji Photo Film Co.,
Ltd., Japan). Eur. Pat. Appl. EP 573008 A1 **19931208**, 70
pp. DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN:
EPXXDW. APPLICATION: EP 1993-108868 19930602. PRIORITY: JP
1992-165482 19920602.

GI



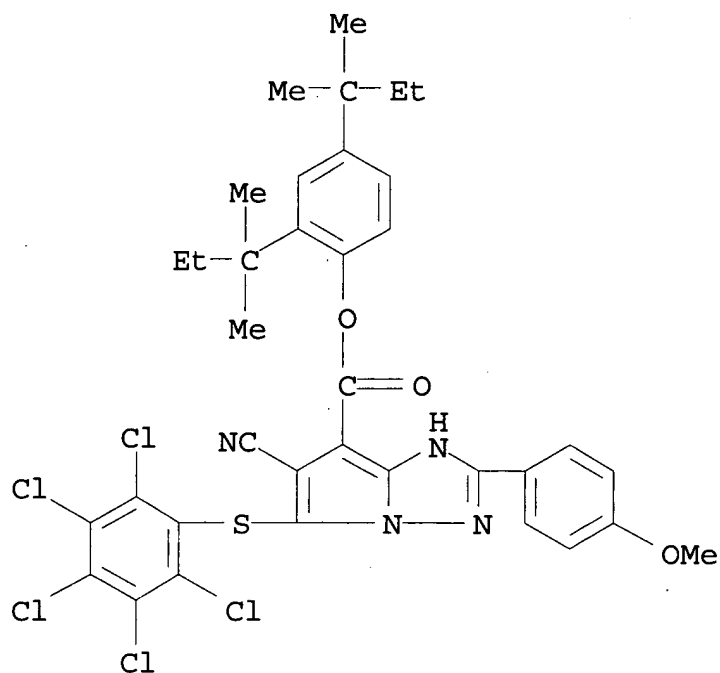
AB A Ag halide color photog. material has on a support the combination of a pyrroloazole type cyan coupler I and .gtoreq.1 redox compd. from II, III, and IV having a mol. wt. of at least 350 [Z1 = NH, CH(R3); Z2, Z3 = C(R4):, N; R1-R3 = electron withdrawing group having a Hammett's substituent const. (.sigma.) .gtoreq.0.2 provided that the sum of .sigma. values for R1 and R2 is .gtoreq.0.65; R4 = H, substituent; X = H, split off group; R1-R4, X may be a divalent group to form a dimer or polymer of the coupler; R5, R6, R9 = monovalent group; j = 1-6; i = 1-4; k = 2, 3; Q = a naphthalene ring may form together with the benzene ring; A = CO, SO2; R7, R8 = alkyl, aryl, heterocyclyl, amino; m, n = 0-2; m + n = 1-2; p = 2-6; some restrictions on the no. of substituents may apply]. The material provides color **photographs** having faithfully reproduced colors which are highly fast to light under both high and low humidity conditions.

IT 153004-07-0

(as **photog.** cyan coupler)

RN 153004-07-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-(4-methoxyphenyl)-5-[(pentachlorophenyl)thio]-,
2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)



- IC ICM G03C007-30
 CC **74-2** (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 Section cross-reference(s): 41
 ST **photog** coupler cyan pyrroloazole; redox compd color
 reprodn paper
 IT **Photographic** paper
 (color, with improved reprodn.)
 IT **Photographic** couplers
 (cyan, pyrroloazole)
 IT 152828-31-4 153004-06-9 **153004-07-0**
 (as **photog.** cyan coupler)
 IT 146822-29-9P 151019-75-9P 151019-76-0P
 (prepn. and reaction of, **photog.** cyan coupler from)
 IT 151019-65-7P
 (prepn. and use of, as **photog.** cyan coupler)
 IT 40292-87-3 72044-21-4 75467-58-2 87667-24-1 89131-34-0
 95994-30-2 96048-53-2 153099-29-7 153099-30-0
 (redox compd. for improved color reprodn. in **photog.**
 paper)

L65 ANSWER 21 OF 21 HCA COPYRIGHT 2005 ACS on STN
 109:219501 Color photographic material for rapid processing. Takada,
 Shun; Onodera, Kaoru (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP
 63100457 A2 **19880502** Showa, 50 pp. (Japanese). CODEN:

JKXXAF. APPLICATION: JP 1986-254255 19861025. PRIORITY: JP 1986-135150 19860611.

GI For diagram(s), see printed CA Issue.

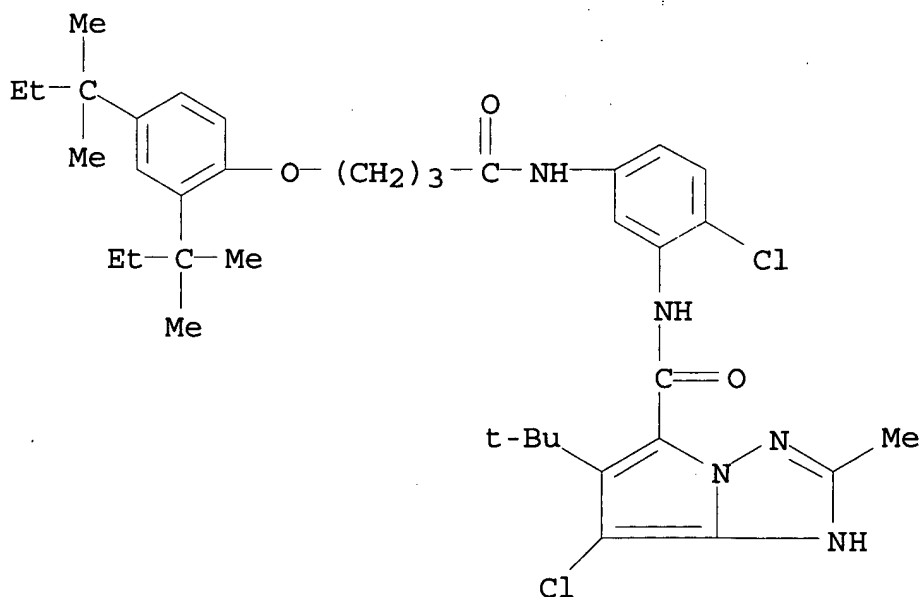
AB The title color photog. material contains a yellow coupler with relative coupling **speed** ratio (RM-RN) .gtoreq.05 in its yellow image forming layer, a magenta coupler selected from (I), (II), and (III) [Za, Zb, Zc =nonmetallic elements required to complete a N heterocycle; Xa, Xb, Xc = H, group releasable on reacting with the oxidized form of a color developer; Ra-g = H, other substituent, group not releasable during reaction of II with the oxidized form of a developer; Y1 = C, N; Y2 = C, heteroatom; - = single or double bond] as their polymers in the magenta image-forming layer, and a cyan coupler (IV) [R1 = alkyl, aryl, cycloalkyl, heterocyclyl; R2 = alkyl, aryl; R3 = H, halo, alkyl, alkoxy; Z1 = H, group releasable on reacting with the oxidized form of a primary arom. amine color developer] in the cyan image-forming layer, the Ag halide in each emulsion layer contg. AgCl .gtoreq.80 mol %. High color d. is achieved with little or no PhCH2OH in the developer soln.

IT 114173-42-1 117541-49-8

(magenta photog. coupler, for rapid processing films using benzyl alc.-free development)

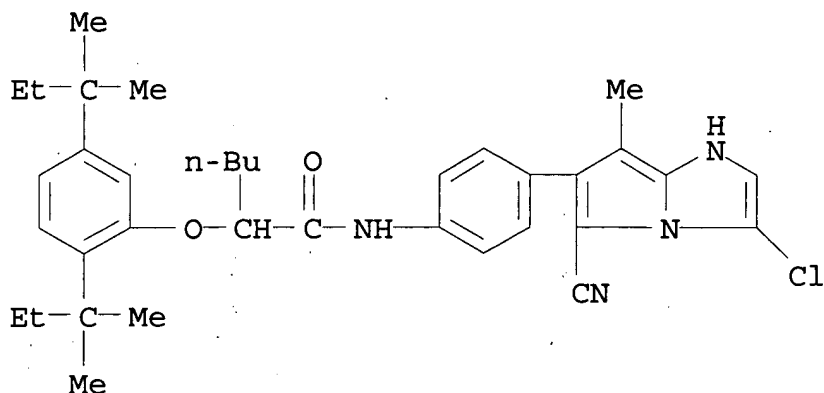
RN 114173-42-1 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-5-carboxamide, N-[5-[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-2-chlorophenyl]-7-chloro-6-(1,1-dimethylethyl)-2-methyl- (9CI) (CA INDEX NAME)



RN 117541-49-8 HCA

CN Hexanamide, 2-[2,5-bis(1,1-dimethylpropyl)phenoxy]-N-[4-(3-chloro-5-cyano-7-methyl-1H-pyrrolo[1,2-a]imidazol-6-yl)phenyl]- (9CI) (CA INDEX NAME)

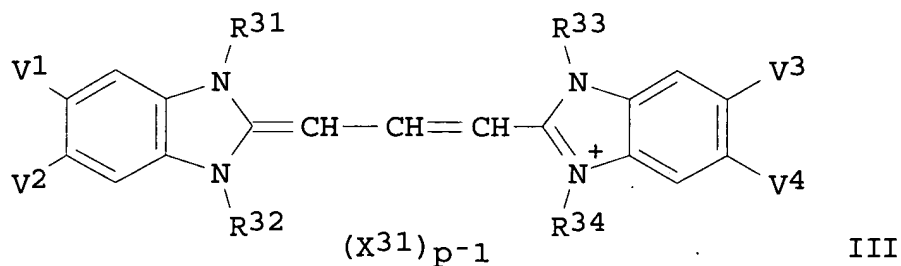
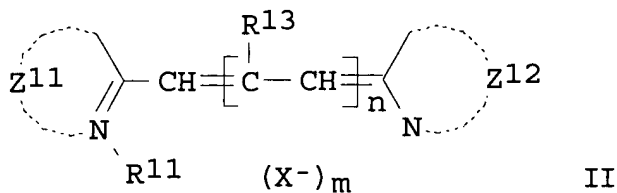
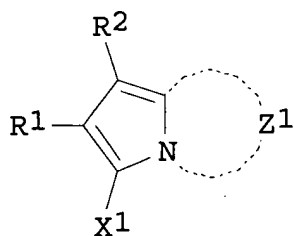


IC ICM G03C007-36
ICS G03C007-34; G03C007-38
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT **114173-42-1** 114173-43-2 114173-44-3 114173-45-4
114173-46-5 114190-91-9 **117541-49-8**
(magenta photog. coupler, for rapid processing films using benzyl alc.-free development)

=> d 166 1-39 cbib abs hitstr hitind

L66 ANSWER 1 OF 39 HCA COPYRIGHT 2005 ACS on STN
135:310817 **Imaging** material and **imaging** method.
Kondo, Katsuji; Tanaka, Shigeo (Konica Co., Japan). Jpn. Kokai
Tokkyo Koho JP 2001281820 A2 **20011010**, 33 pp. (Japanese).
CODEN: JKXXAF. APPLICATION: JP 2000-100674 20000403.

GI



AB The invention refers to an **imaging** material comprising a **Ag halide** emulsion with > 90% **silver chloride** on a substrate contg. I and $Z11R11CH:[CR13CH:]nZ12R12 \cdot cntdot \cdot (X-)m$ [R1,2 = electron withdrawing group with Hammett $\sigma_p > 0.2$ wherein the sum of σ_p of R1 and R2 > 0.65; Z1 = non-metallic atoms needed to form a (un)substituted N-contg. 5 membered ring; X1 = H or group desorbed during the coupling reaction with a luminescent developing agent and oxidizer; Z11,12 = benzothiazole or naphthothiazol; R11,22 = alkyl, alkenyl or aryl; R12 = H, alkyl or aryl; n = 0 or 1; X- = anion; m = 0 or 1].

IT 7783-90-6, Silver chloride, uses
153004-06-9

(**image** formation ingredient and **image** formation method)

RN 7783-90-6 HCA

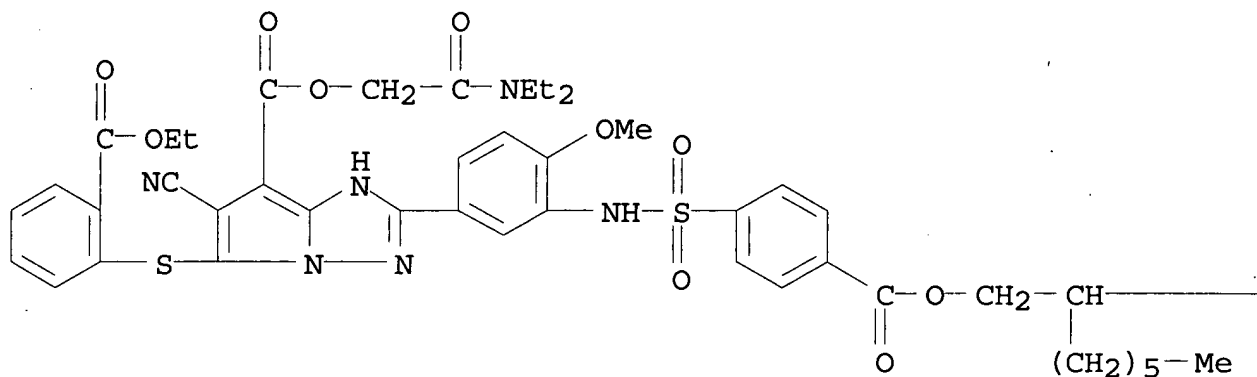
CN Silver chloride (AgCl) (9CI) (CA INDEX NAME)

Ag-Cl

RN 153004-06-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-5-[[2-(ethoxycarbonyl)phenyl]thio]-2-[3-[[[4-[[[(2-hexyldecyl)oxy]carbonyl]phenyl]sulfonyl]amino]-4-methoxyphenyl]-, 2-(diethylamino)-2-oxoethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— (CH₂)₇—Me

- IC ICM G03C007-38
ICS G03C001-035; G03C001-16; G03C001-18; G03C005-08; G03C007-44
- CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST photog imaging
- IT Imaging
(image formation ingredient and image
formation method)
- IT 36290-04-7
(Demol N; image formation ingredient and image
formation method)
- IT 67-43-6 81-11-8D, deriv. 86-93-1, 1-Phenyl-5-mercaptotetrazole
90-43-7, o-Phenylphenol 102-71-6, Triethanol amine, uses
111-46-6, Diethylene glycol, uses 140-01-2, Sodium diethylene
triamine pentaacetate 280-57-9, Triethylene diamine 471-34-1,
Calcium carbonate, uses 577-11-7, Di(2-ethylhexyl) sulfosuccinate
sodium salt 1323-19-9, Sodium tri-isopropyl naphthalene sulfonate
1345-25-1D, Iron(II) oxide, potassium hexacyano 2349-67-9,

2-Amino-5-mercapto-1,3,4-thiadiazole 2682-20-4 2736-18-7, Sodium
 2,4-dichloro-6-hydroxy-s-triazine 2809-21-4 3710-84-7,
 N,N-Diethylhydroxyl amine 3846-71-7 4327-84-8 4622-66-6
 5064-31-3 7487-88-9, Magnesium sulfate, uses 7664-41-7, Ammonia,
 uses 7681-49-4, Sodium fluoride, uses 7772-98-7, Sodium
 thiosulfate 7783-90-6, **Silver chloride**
 , uses 7787-60-2, Bismuth chloride 7789-41-5, Calcium bromide
 9003-39-8, Polyvinylpyrrolidone 10034-99-8, Magnesium sulfate
 heptahydrate 10043-52-4, Calcium chloride, uses 10196-04-0,
 Ammonium sulfite 10257-55-3, Calcium sulfite 10294-26-5, Silver
 sulfate 12030-49-8D, Iridium(IV) oxide, Potassium hexachloro
 13453-07-1, Auric chloride 13463-67-7, Titania, uses 14070-48-5,
 1-(3-Acetamidophenyl)-5-mercaptotetrazole 15182-68-0 23568-98-1
 25295-51-6, Tinopal SFP 25973-55-1 26110-32-7 26172-55-4
 26542-23-4 26761-40-0, Di(iso-decyl)phthalate 47867-58-3
 52049-36-2 60345-53-1, Tetrakis(vinylsulfonyl methyl)methane
 60350-71-2, 2,5-Di-sec-dodecylhydroquinone 68684-29-7 83970-10-9
 85238-64-8, 2,5-Di(1,1-dimethyl-4-hexyloxycarbonyl) butyl)
 hydroquinone 104497-94-1 110557-94-3 113477-02-4 120379-95-5
 124351-77-5 125598-17-6 142619-57-6, 2,5-Di-sec-tetradecyl
 hydroquinone 142776-95-2 146344-91-4, 2-sec-Dodecyl-5-sec-
 tetradecyl hydroquinone 150919-56-5 151019-65-7 152828-32-5
153004-06-9 154021-59-7 154021-66-6 157533-14-7
 158546-44-2 158907-87-0 160141-94-6 160141-97-9 188745-52-0
 247578-70-7 366008-62-0 366015-31-8

(**image** formation ingredient and **image**
 formation method)

L66 ANSWER 2 OF 39 HCA COPYRIGHT 2005 ACS on STN

134:34994 **Photographic** lipophilic fine particle dispersion

liquid, **photographic** material, and **image**

formation. Hiyama, Kunimasa (Konica Co., Japan). Jpn. Kokai Tokkyo
 Koho JP 2000330239 A2 **20001130**, 66 pp. (Japanese).

CODEN: JKXXAF. APPLICATION: JP 1999-143205 19990524.

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title dispersion liq. contains a compd. I (R1, R2 = alkyl, aryl,
 alkoxy, aryloxy; R3 = H, halo, univalent org. group) or II [R1, R2 =
 substituent, .gtoreq.1 of R1 and R2 is alkoxy, aryloxy, alkylthio,
 acylamino, or NHCO2R (R = alkyl, aryl); X1, X2 = halo; m, n, p, q =
 0-4, m + n, p + q = 0-4, m .noteq. n .noteq. 0, when m, n, p, q
 .gtoreq.2, the plural groups of R1, R2, X1, and X2 are the same or
 different] or .gtoreq.1 compd. (A) having an absorption max.

wavelength in the range of 330-390 nm and a molar extinction coeff. of .gtoreq.17000 and the av. particle diam. of the dispersed lipophilic fine particles is .ltoreq.0.1 .mu.m or the refractive index of the oil phase is 1.48-1.58. **Photog.** material, having .gtoreq.1 photosensitive layer and .gtoreq.1 nonphotosensitive layer, contains I, II, and (i) the compd. (A) and a nonionic surfactant, (ii) .gtoreq.1 selected from III (R 31 = C1-3 alkyl, R32 = ballast group; X21 = releasing group by reaction with developer oxide), IV, V, VI, and VII (R42 = substituent; R41, R43, R46-47 = H, substituent; Z1, Z3 = nonmetal atoms to form 5-membered N-contg. heterocycle; Z2, Z4 = nonmetal atoms to form 6-membered N-contg. heterocycle; R44-45 = electron withdrawing group; X31-34 = releasing group by reaction with developer oxide) (iii) aliph. alc., (iv) VIII (R12-13 = sec- or tert-alkyl), (v) tabular **silver halide** emulsion with **AgCl** content .gtoreq.95 mol% and aspect ratio .gtoreq.3.0, (vi) a fluorescent brightener in a support, (vii) **Ag halide** emulsion with **AgCl** content .gtoreq.95 mol% and contg. Ir compd., or (viii) fluorosurfactant. The **photog.** material contg. I or II is subjected to scanning exposure using laser beams having an emission max. at 400-450 nm to form **images**. The dispersion liq. shows high lightfastness and color d. even after storage and the **photog.** material provides high quality color **images** showing little variation of Dmin and discoloration upon rapid processing.

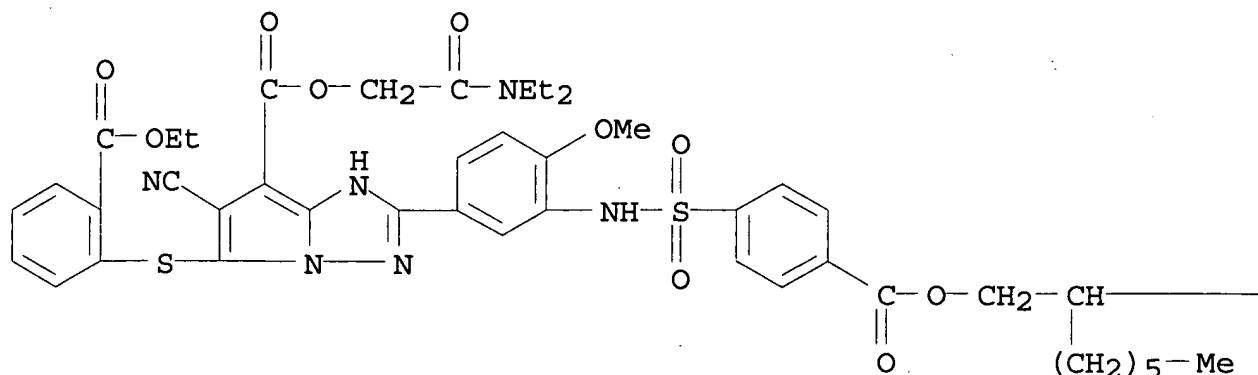
IT 153004-06-9

(coupler; **photog.** paper contg. UV absorbent)

RN 153004-06-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-5-[[2-(ethoxycarbonyl)phenyl]thio]-2-[3-[[[4-[(2-hexyldecyl)oxy]carbonyl]phenyl]sulfonyl]amino]-4-methoxyphenyl]-, 2-(diethylamino)-2-oxoethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— (CH₂)₇—Me

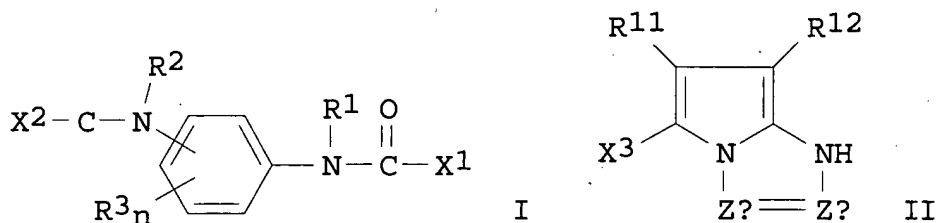
- IC ICM G03C001-815
ICS G03C001-035; G03C001-09; G03C001-38; G03C005-08; G03C007-38;
G03C007-392
- CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST **photog** paper UV absorbent lipophilic dispersion; coupler
photog paper; surfactant **photog** paper
- IT **Photographic** paper
UV stabilizers
(**photog.** paper manufd. by using lipophilic fine
particle dispersion contg. UV absorbent)
- IT 99817-34-2 121343-15-5 153004-06-9 158546-44-2
172972-51-9 221387-60-6
(coupler; **photog.** paper contg. UV absorbent)
- IT 16920-56-2
(**photog.** emulsion contg. iridium compd.)
- IT 4782-13-2 40292-91-9 148236-55-9 148898-74-2 197251-57-3
(**photog.** paper contg. UV absorbent)
- IT 593-47-5, 9-Octadecen-1-ol 8007-43-0, Sorbitan sesquioleate
(**photog.** paper contg. UV absorbent and aliph. alc.)
- IT 18249-20-2
(surfactant; **photog.** paper contg. UV absorbent)

L66 ANSWER 3 OF 39 HCA COPYRIGHT 2005 ACS on STN

131:279219 **Silver halide color photographic**

material containing bisurethane or bisureido compound. Mikoshiba,
Takashi; Soejima, Susumu (Fuji Photo Film Co., Ltd., Japan). Jpn.
Kokai Tokkyo Koho JP 11271940 A2 19991008 Heisei, 69 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-71020 19980319.

GI



AB The title **photog.** material, possessing .gtoreq.1 **Ag halide** emulsion layer on a support, contains .gtoreq.1 a compd. $m\text{-X}_2\text{CONR}_2\text{C}_6\text{H}_4\text{NR}_1\text{COX}_1$ ($\text{R}_1, \text{R}_2 = \text{H}$, aliph. group, aryl; $\text{X}_1, \text{X}_2 = \text{OR}_4, \text{NR}_5\text{R}_6$; $\text{R}_4\text{-6} = \text{H}$, aliph. group, aryl, R_1, R_5 , and R_6 are not alkyl at the same time). The material may contain .gtoreq.1 a compd. I ($\text{R}_1, \text{R}_2, \text{R}_4, \text{X}_1$, and X_2 are the same as defined for the above formula, resp.; $\text{R}_3 = \text{H}$, substituent; $\text{R}_5, \text{R}_6 = \text{H}$, aliph. group, aryl; $n = 0\text{-}4$; this compd. has no ability of reacting with an oxidized color developing agent to form a dye) and .gtoreq.1 a cyan coupler II [$\text{Z}_a, \text{Z}_b = \text{:CR}_{13}, \text{:N}$, either one is :N and the other :CR_{13} ; $\text{R}_{11}, \text{R}_{12} =$ electron-attracting group with Hammett's substituent const. σ_p .gtoreq.0.20, the sum of σ_p values of R_{11} and R_{12} is .gtoreq.0.65; $\text{R}_{13} = \text{H}$, substituent; $\text{X}_3 = \text{H}$, group releasing upon coupling with an oxidized arom. primary amine developing agent, $\text{R}_{11}\text{-}13$ and X_3 may be divalent groups which link to a polymer higher than dimer or polymer chain to form a (co)polymer]. The material shows improved coloring properties and storage stability and provides a high color quality **image** with improved lightfastness and without cyan stain.

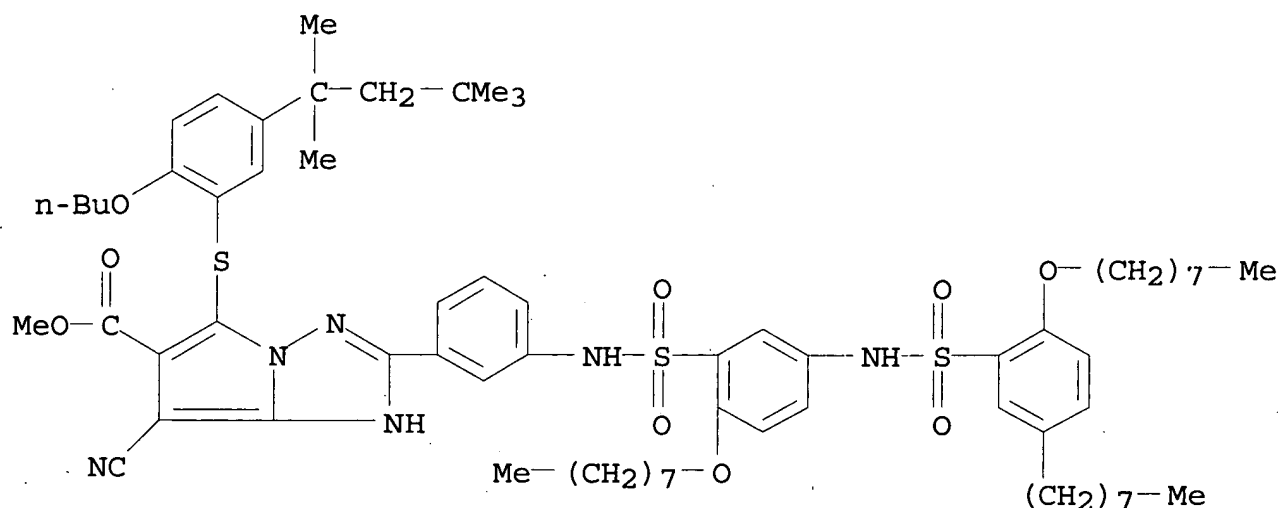
IT 143324-39-4

(**silver halide color photog.**

material contg. bisurethane or bisureido compd. and pyrolotriazole cyan coupler)

RN 143324-39-4 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid,
5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-7-cyano-2-[3-
[[[5-[[[5-octyl-2-(octyloxy)phenyl]sulfonyl]amino]-2-
(octyloxy)phenyl]sulfonyl]amino]phenyl]-, methyl ester (9CI) (CA
INDEX NAME)



IC ICM G03C007-392
ICS G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST **silver halide photog** bisurethane
bisureido; pyrolotriazole cyan coupler **silver
halide photog**

IT **Photographic emulsions**
(color; **silver halide color photog.**
material contg. bisurethane or bisureido compd. and
pyrolotriazole cyan coupler)

IT Cyan couplers
(**silver halide color photog.**
material contg. bisurethane or bisureido compd. and
pyrolotriazole cyan coupler)

IT 126360-49-4 223564-71-4 245439-71-8 245439-72-9 245439-73-0
245439-74-1 245439-75-2 245439-76-3 245439-78-5 245439-79-6
245439-80-9 245439-81-0 245439-82-1 245439-83-2 245439-84-3
245439-85-4 245439-86-5 245439-87-6 245439-88-7 245439-90-1
245439-91-2 245439-92-3 245439-93-4 245439-94-5 245439-95-6
245439-96-7 245439-97-8 245439-98-9
(dispersion medium in coupler-contg. layer; **silver
halide color photog.** material contg.
bisurethane or bisureido compd. and pyrolotriazole cyan coupler)

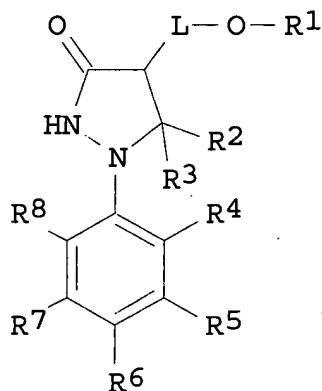
IT 143324-39-4 151019-64-6 153273-52-0 178743-91-4
179330-29-1 184947-09-9 188745-52-0 200049-63-4 200049-64-5
200110-89-0 200110-90-3 200110-91-4 200137-20-8 200137-21-9
200137-23-1 200216-40-6 211051-73-9 211051-76-2 217456-51-4
245439-99-0 245440-00-0 245440-02-2 245440-03-3 245440-04-4
245440-05-5 245440-06-6 245440-45-3

(silver halide color photog.
material contg. bisurethane or bisureido compd. and
pyrrolotriazole cyan coupler)

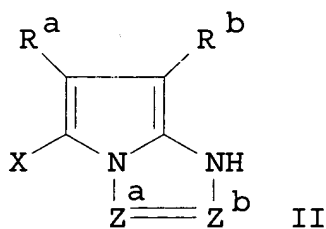
L66 ANSWER 4 OF 39 HCA COPYRIGHT 2005 ACS on STN

131:235677 Phenidone compound and **silver halide**
color **photographic** paper containing the same. Mikoshiba,
Takashi; Yoshioka, Yasuhiro (Fuji Photo Film Co., Ltd., Japan).
Jpn. Kokai Tokkyo Koho JP 11246785 A2 **19990914** Heisei, 55
pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-49809
19980302.

GI



I



II

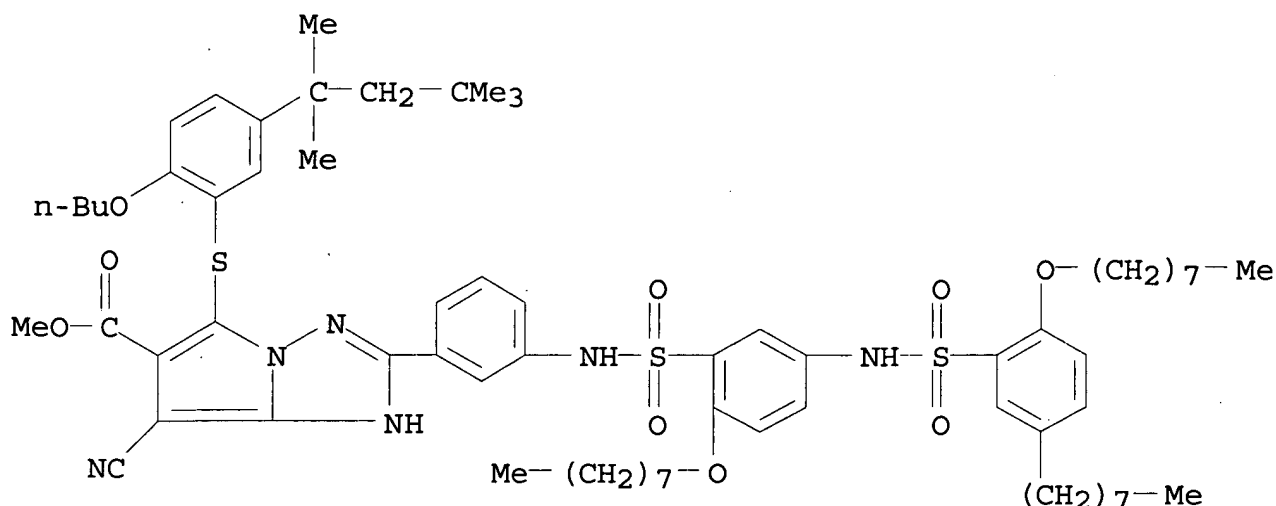
AB The **Ag halide** color **photog.** paper
contains the phenidone compd. represented by a general formula I (L
= alkylene; R1 = alkyl, aryl; R2, R3 = H, alkyl, aryl; R4-8 = H,
substituent) and a cyan coupler represented by a general formula II
(Za, Zb = -C(Rc):, -N:; Ra, Rb = electron withdrawing group having
Hammett substituent const. $\Delta\rho > 0.20$; Rc = H,
substituent; X = H, coupling group). The **photog.** paper
shows excellent color reprodn. and improved storage stability.

IT **143324-39-4**

(cyan coupler in **silver halide** color
photog. paper)

RN 143324-39-4 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid,
5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-7-cyano-2-[3-
[[[5-[[[5-octyl-2-(octyloxy)phenyl]sulfonyl]amino]-2-
(octyloxy)phenyl]sulfonyl]amino]phenyl]-, methyl ester (9CI) (CA
INDEX NAME)



IC ICM C09B057-00
ICS C07D231-08; C07D417-10; C07D487-04; G03C007-38; G03C007-392

CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST phenidone **silver halide** color **photog**
paper cyan coupler

IT Color **photographic** paper
Cyan couplers
(phenidone compd. and **silver halide** color
photog. paper contg. the same)

IT **143324-39-4** 153273-52-0 184773-62-4 200049-62-3
200049-65-6 200110-90-3 200110-96-9 200137-21-9 200137-23-1
211051-73-9 211051-94-4 219553-72-7 220383-54-0 243986-78-9
243986-79-0 243986-80-3 243986-81-4 243986-82-5
(cyan coupler in **silver halide** color
photog. paper)

IT 184947-09-9P 188745-52-0P
(cyan coupler in **silver halide** color
photog. paper)

IT 243986-55-2 243986-56-3 243986-57-4 243986-58-5 243986-59-6
243986-60-9 243986-61-0 243986-62-1 243986-63-2 243986-64-3
243986-65-4 243986-66-5 243986-67-6 243986-68-7 243986-69-8
243986-70-1 243986-71-2 243986-72-3 243986-73-4
(phenidone compd. in **silver halide** color
photog. paper)

IT 243986-53-0P 243986-54-1P
(phenidone compd. in **silver halide** color
photog. paper)

IT 105-34-0, Methyl cyanoacetate 7726-95-6, Bromine, reactions
15159-40-7, Morpholinocarbonyl chloride 25761-72-2,

Diallylcarbamoyl chloride 163119-16-2, 2,6-Di-tert-butyl-4-methylcyclohexanol 194419-32-4

(prepn. of cyan coupler for **silver halide** color **photog.** paper)

IT 200111-47-3P 200111-48-4P 200111-49-5P 243986-83-6P

(prepn. of cyan coupler for **silver halide** color **photog.** paper)

IT 50-00-0, Formaldehyde, reactions 64-17-5, Ethanol, reactions 95-92-1, Diethyl oxalate 100-63-0, Phenylhydrazine 141-52-6, Sodium ethoxide 50772-35-5 243986-77-8,

(prepn. of phenidone compd. for **silver halide** color **photog.** paper)

IT 243986-74-5P 243986-75-6P 243986-76-7P

(prepn. of phenidone compd. for **silver halide** color **photog.** paper)

L66 ANSWER 5 OF 39 HCA COPYRIGHT 2005 ACS on STN

131:80699 **Photographic** couplers having UV-absorbing function and **silver halide photographic**

material using same. Nakamura, Kazuaki; Chen, Zuliou; Kita, Hiroshi; Kaneko, Yutaka (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 11160840 A2 19990618 Heisei, 68 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-340814 19971127.

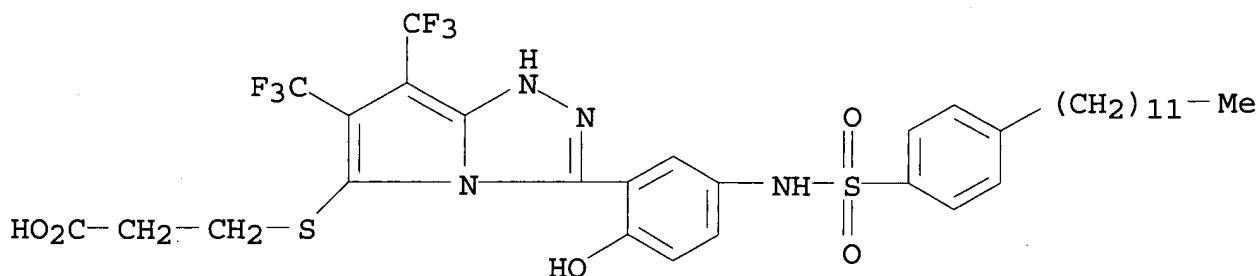
AB The title couplers have UV-absorbing function and molar absorption coeff. of .gtoreq.10,000 at 350 nm and .ltoreq.100 at 420 nm in MeOH.. Cyan, magenta, and yellow couplers with specified structures and above conditions are also claimed. A **Ag halide photog.** material contg. .gtoreq.1 of the above couplers is also claimed. The **photog.** material shows improved processability in rapid process and provides high quality color **images** with excellent lightfastness.

IT 228416-09-9

(**photog.** coupler having UV-absorbing property and specified mol. absorption coeff. for emulsion providing **image** with light fastness)

RN 228416-09-9 HCA

CN Propanoic acid, 3-[[3-[5-[[[(4-dodecylphenyl)sulfonyl]amino]-2-hydroxyphenyl]-6,7-bis(trifluoromethyl)-1H-pyrrolo[2,1-c]-1,2,4-triazol-5-yl]thio]- (9CI) (CA INDEX NAME)



- IC ICM G03C007-32
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **photog** coupler UV absorbing; mol absorption coeff
photog coupler; light fastness **photog** emulsion
 coupler; rapid processing **photog** coupler; cyan magenta
 yellow coupler
- IT Cyan couplers
 Magenta couplers
 Photographic couplers
 Photographic development
 Photographic emulsions
 UV stabilizers
 Yellow couplers
 (**photog.** coupler having UV-absorbing property and
 specified mol. absorption coeff. for emulsion for rapid
 processing)
- IT Light-resistant materials
 (**photog.** coupler having UV-absorbing property and
 specified mol. absorption coeff. for emulsion providing
 image with light fastness)
- | | | | | | |
|----|--------------------|-------------|-------------|-------------|-------------|
| IT | 228415-75-6 | 228415-76-7 | 228415-77-8 | 228415-78-9 | 228415-79-0 |
| | 228415-80-3 | 228415-81-4 | 228415-82-5 | 228415-83-6 | 228415-84-7 |
| | 228415-85-8 | 228415-86-9 | 228415-87-0 | 228415-88-1 | 228415-89-2 |
| | 228415-90-5 | 228415-91-6 | 228415-92-7 | 228415-93-8 | 228415-94-9 |
| | 228415-95-0 | 228415-96-1 | 228415-97-2 | 228415-98-3 | 228415-99-4 |
| | 228416-00-0 | 228416-01-1 | 228416-02-2 | 228416-03-3 | 228416-04-4 |
| | 228416-05-5 | 228416-06-6 | 228416-07-7 | 228416-08-8 | |
| | 228416-09-9 | 228416-10-2 | 228416-11-3 | 228416-12-4 | |
| | 228416-13-5 | 228416-14-6 | 228416-15-7 | 228416-16-8 | 228416-17-9 |
| | 228416-18-0 | 228416-19-1 | 228416-20-4 | 228416-21-5 | 228416-22-6 |
| | 228416-23-7 | 228416-24-8 | 228416-25-9 | 228416-26-0 | 228416-27-1 |
| | 228561-33-9 | | | | |
- (**photog.** coupler having UV-absorbing property and
 specified mol. absorption coeff. for emulsion providing
image with light fastness)

L66 ANSWER 6 OF 39 HCA COPYRIGHT 2005 ACS on STN

130:88106 **Silver halide color photographic**

material. Ishii, Fumio; Daiba, Shinichi; Oshiyama, Tomohiro; Hirabayashi, Shigeto; Iwai, Yoshiko (Konica Corporation, Japan). Eur. Pat. Appl. EP 886179 A1 **19981223**, 142 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO. (English). CODEN: EPXXDW. APPLICATION: EP 1998-111048 19980616. PRIORITY: JP 1997-158733 19970616; JP 1997-182358 19970708; JP 1997-214002 19970724; JP 1997-217563 19970812; JP 1997-222442 19970819.

AB **A silver halide color photog. material**

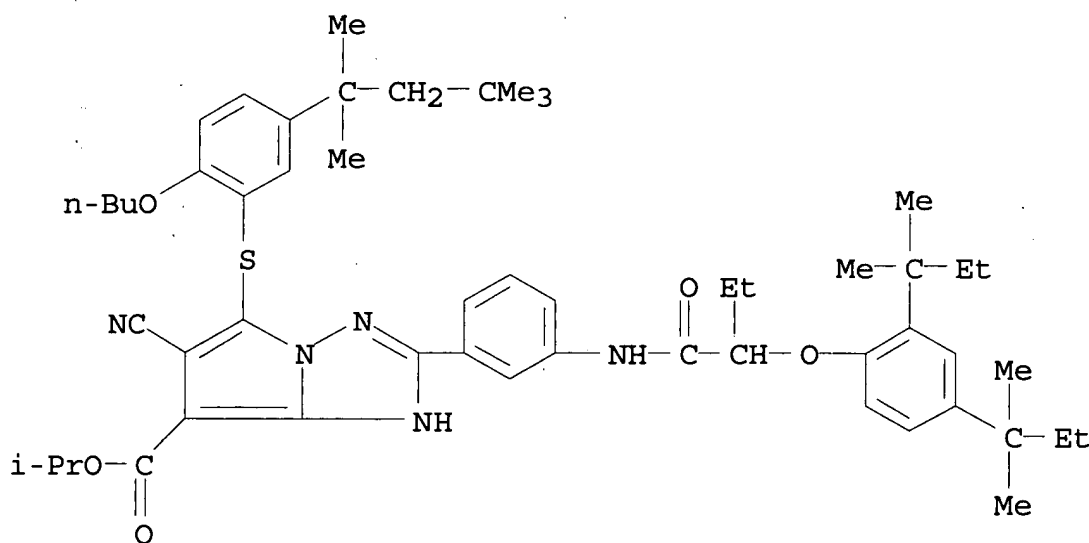
comprises a thermotropic liq. crystal compd. represented by the formula $Y1A1(X1)mA2Y2$ or $Y1A1(X1)mA2(X2)nA3Y2$ ($A1-3$ = an alicyclic or arom. group; $X1, X2$ = a bonding group; m, n = 0 or 1; $Y1, Y2$ = a substituent group). The color **photog.** material is improved in lightfastness of dye **images** and dye-forming efficiency.

IT **150982-37-9**

(cyan **photog.** coupler for use in color **photog.** materials contg. thermotropic liq. crystals)

RN 150982-37-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 2-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-388

ICS G03C007-392

CC **74-2** (Radiation Chemistry, Photochemistry, and

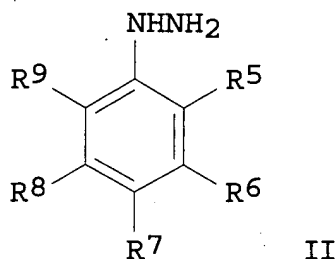
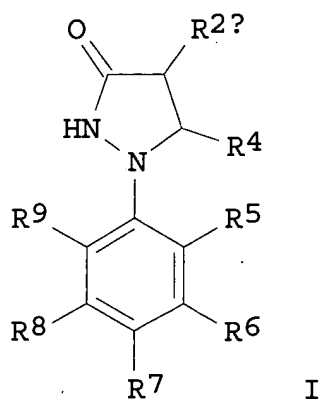
Photographic and Other Reprographic Processes)
 ST color **photog** emulsion thermotropic liq crystal
 IT **Photographic** emulsions
 (color; contg. thermotropic liq. crystals)
 IT Magenta couplers
 (pyrazoloazoles for color **photog.** materials contg.
 thermotropic liq. crystals)
 IT Liquid crystals
 (thermotropic; **silver halide** color
 photog. materials contg.)
 IT 218767-62-5
 (agenta **photog.** coupler for use in color **photog**
 . materials contg. thermotropic liq. crystals)
 IT 107141-93-5 115625-86-0 **150982-37-9** 151019-65-7
 161255-60-3 161255-64-7 161255-77-2 174215-57-7 175734-04-0
 196965-46-5 207303-08-0 218767-83-0 218767-87-4 218786-85-7
 (cyan **photog.** coupler for use in color **photog**
 . materials contg. thermotropic liq. crystals)
 IT 218767-69-2
 (magenta **photog.** coupler for use in color
 photog. materials contg. thermotropic liq. crystals)
 IT 910-31-6 25822-54-2 38690-76-5 62439-34-3 65201-68-5
 65718-56-1 70351-85-8 77363-09-8 78904-19-5 80274-66-4
 81455-18-7 81843-52-9 95480-29-8 99217-29-5 123560-54-3
 218768-26-4 218768-29-7 218768-32-2 218768-41-3 218768-44-6
 218768-50-4 218768-52-6 218768-54-8 218768-55-9 218768-56-0
 218768-57-1 218768-59-3 218768-61-7 218768-63-9 218768-65-1
 218768-69-5 218768-70-8
 (thermotropic liq. crystal for **silver halide**
 color **photog.** materials)

L66 ANSWER 7 OF 39 HCA COPYRIGHT 2005 ACS on STN

129:168037 **Silver halide** color **photographic**

material, phenidone compounds used therefor, and process for
 preparing the same. Mikoshiba, Hisashi; Yoshioka, Yasuhiro;
 Soejima, Shin; Takahashi, Osamu; Saito, Naoki; Morigaki, Masakazu
 (Fuji Photo Film Co., Ltd., Japan). PCT Int. Appl. WO 9833760 A1
19980806, 162 pp. DESIGNATED STATES: W: CN, JP, US; RW:
 AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE.
 (Japanese). CODEN: PIXXD2. APPLICATION: WO 1998-JP432 19980202.
 PRIORITY: JP 1997-20816 19970203; JP 1997-140719 19970529; JP
 1997-195881 19970722.

GI



AB Claimed is a **silver halide color photog**.
 . material improved in the fastness of a color **image**,
 color reprodn., cyan stain, cyan color mixing at the time of
 processing, and the like by the combined use of a phenidone compd.
 having a particular structure, such as one represented by general
 formula (I; R4 = H, C1-30 alkyl, C6-20 aryl; R2a = C1-30 alkyl or
 alkenyl; R5 - R9 = H, alkyl, aryl, alkoxy, aryloxy, NH2, alkylamino,
 arylamino, acylamino, aminocarbonylamino, alkoxy carbonylamino,
 arylcarbonylamino, alkoxy carbonyl, aryloxy carbonyl, sulfonyl,
 sulfonylamino, halo, OH, CO2H, heterocyclyl, SO2NH2, CONH2, azo,
 alkylthio, arylthio, imido, sulfinyl, phosphonyl, acyl) and a
 pyrrolotriazole cyan coupler. The phenidone compds. I can be prepd.
 at a low cost on a com. scale by reacting an .alpha.-alkyl- or
 alkenylacrylic ester of formula R4HC:CR2aCO2R3 (R2a, R4 = same as
 above) with a phenylhydrazine compd. represented by general formula
 (II; R5 - R9 = same as above). Thus, a soln. of 74.04 mmol
 CH2:C(C16H33-n)CO2Me in toluene was dropwise to a stirred mixt. of
 67.0 mmol phenylhydrazine and 73.7 mmol NaOMe at 100.degree. and the
 resulting mixt. was allowed to react at 100.degree. for 30 min to
 give I (R2a = C16H33-n, R4 - R9 = H) (III). A color **photog**
 . paper contg. III, a cyan coupler (IV), a hindered amine (V) showed
 cyan stain .DELTA.D of 0.01, good color reprodn., and 91%
 photostability (residual ratio).

IT 211051-92-2

(**silver halide color photog.**

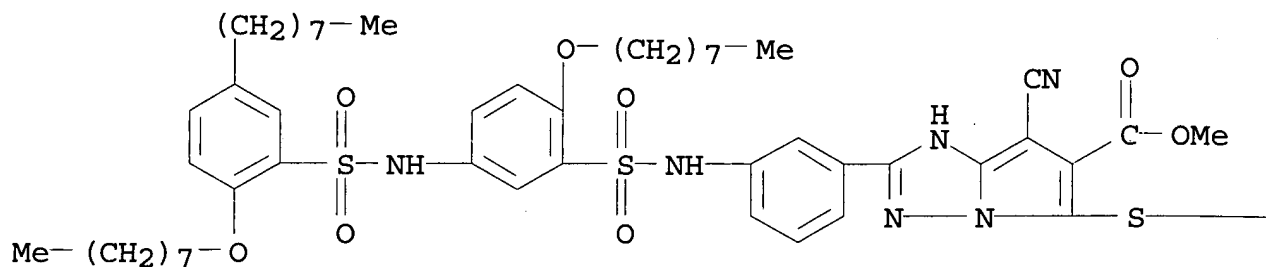
material contg. phenidone compds. and pyrrolotriazole cyan
 couplers)

RN 211051-92-2 HCA

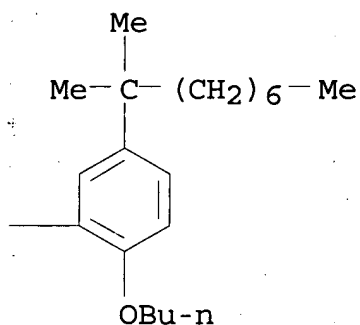
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid,
 5-[[2-butoxy-5-(1,1-dimethyloctyl)phenyl]thio]-7-cyano-2-[3-[[[5-
 [[5-octyl-2-(octyloxy)phenyl]sulfonyl]amino]-2-
 (octyloxy)phenyl]sulfonyl]amino]phenyl]-, methyl ester (9CI) (CA

INDEX NAME)

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PAGE 1-B



IC ICM C07C069-533
ICS C07D231-08; G03C007-392

CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST color **photog** paper; **Silver halide**
color **photog** emulsion; fastness color **image**
improved; cyan stain color reprodn improved; pyrrolotriazole cyan
coupler; phenidone compd prepn; phenylhydrazine cyclocondensation
alkenylacrylic ester; alkylacrylic ester cyclocondensation
phenylhydrazine

IT Cyan couplers
Photographic couplers
Photographic emulsions
Photographic paper
(**silver halide color photog.**
material contg. phenidone compds. and pyrrolotriazole cyan
couplers)

IT 202483-63-4P 211051-27-3P 211051-31-9P 211051-36-4P
211051-40-0P 211051-44-4P 211051-47-7P 211051-49-9P

211051-52-4P 211051-54-6P 211051-57-9P 211051-59-1P
 211051-96-6P 211051-97-7P 211051-99-9P 211052-01-6P
 211052-03-8P 211052-05-0P 211052-07-2P 211052-09-4P
 211052-11-8P 211052-13-0P 211052-15-2P 211052-17-4P
 211052-19-6P 211052-21-0P 211052-23-2P 211052-25-4P
 211052-27-6P 211052-29-8P 211052-31-2P 211052-32-3P
 211052-35-6P 211052-37-8P 211052-39-0P 211052-41-4P
 211052-43-6P 232947-66-9P 361177-83-5P 361177-92-6P
 361181-22-8P

(silver halide color photog.

material contg. phenidone compds. and pyrrolotriazole cyan
 couplers)

IT 2516-92-9 122586-52-1 122616-76-6 158779-09-0 200216-42-8
 200216-44-0 200216-55-3 200357-97-7 211052-45-8 211052-47-0
 211052-51-6 211052-54-9 211052-58-3 211052-60-7 211052-62-9
 211052-64-1 211102-31-7

(silver halide color photog.

material contg. phenidone compds. and pyrrolotriazole cyan
 couplers)

IT 153273-52-0 179330-29-1 184773-62-4 184947-09-9 188745-52-0
 200049-63-4 200049-65-6 200110-90-3 200137-20-8 200137-21-9
 200137-23-1 211051-70-6 211051-73-9 211051-76-2 211051-85-3
 211051-92-2 211051-94-4

(silver halide color photog.

material contg. phenidone compds. and pyrrolotriazole cyan
 couplers)

IT 50-00-0, Formaldehyde, reactions 95-92-1, Diethyl oxalate
 100-63-0, Phenylhydrazine 108-59-8, Dimethyl malonate 112-61-8,
 Methyl octadecanoate 112-82-3, 1-Bromohexadecane 553-90-2,
 Dimethyl oxalate 554-84-7, 3-Nitrophenol 628-97-7, Ethyl
 hexadecanoate 759-65-9 1590-53-0, 3-(n-
 Hexadecyloxy)phenylhydrazine hydrochloride 1806-72-0 23130-42-9,
 Dimethyl n-hexadecylmalonate 53633-31-1, n-Hexadecylmalonic acid
 monomethyl ester 211052-72-1, 3-(n-Hexadecyloxy)aniline
 hydrochloride

(silver halide color photog.

material contg. phenidone compds. and pyrrolotriazole cyan
 couplers)

IT 53633-32-2P 123633-21-6P 211052-69-6P

(silver halide color photog.

material contg. phenidone compds. and pyrrolotriazole cyan
 couplers)

L66 ANSWER 8 OF 39 HCA COPYRIGHT 2005 ACS on STN

129:101879 **Photography and photographic film**

containing anti-diffusive coupler. Miyazawa, Kazuhiro; Tanaka,
 Shigeo (Konica Co., Japan). Jpn. Kokai Tokkyo Koho JP 10161287 A2
 19980619 Heisei, 38 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1996-322650 19961203.

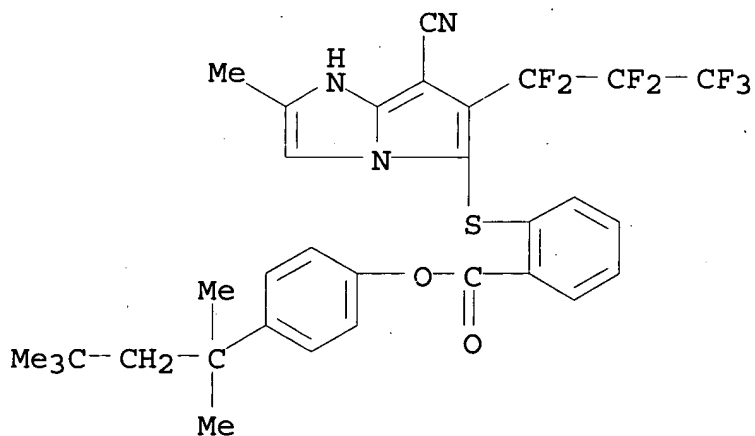
AB In the title material possessing .gtoreq.1 color **image**-forming layer contg. photosensitive **Ag halides** and couplers on a support, the **Ag halide** content in the layer is .ltoreq.0.1 g/m² (based on Ag) and the layer contains an anti-diffusive coupler forming a transferable dye upon coupling with an oxidized color developing agent. The coupler may form a dye mol. with mol. wt 250-700 having no dissocg. group of pka .ltoreq.12 or one with mol. wt. 450-1200 having .gtoreq.1 dissocg. group of pka .ltoreq.12 upon coupling with an oxidized color developing agent. An **imaging** method involving amplification development of the material is also claimed. The material prevents the deterioration of color reproducibility arising from insufficient desilvering upon rapid processing in bleaching and fixing steps after amplified development.

IT 209681-33-4

(**photog.** film contg. anti-diffusive coupler forming transferable dye)

RN 209681-33-4 HCA

CN Benzoic acid, 2-[[7-cyano-6-(heptafluoropropyl)-2-methyl-1H-pyrrolo[1,2-a]imidazol-5-yl]thio]-, 4-(1,1,3,3-tetramethylbutyl)phenyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-407

ICS G03C007-30; G03C007-32

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **photog** antidiffusive coupler; transferable dye forming coupler **photog**

IT **Photographic** couplers

(**photog.** film contg. anti-diffusive coupler forming transferable dye)

IT 92974-52-2 209681-21-0 209681-22-1 209681-23-2 209681-24-3

209681-25-4 209681-27-6 209681-28-7 209681-29-8 209681-30-1
 209681-31-2 209681-32-3 **209681-33-4** 209681-34-5

(**photog.** film contg. anti-diffusive coupler forming transferable dye)

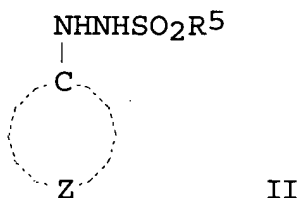
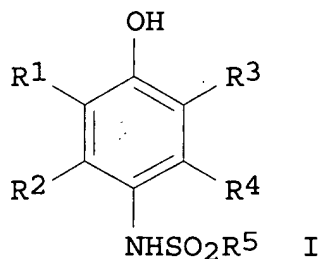
L66 ANSWER 9 OF 39 HCA COPYRIGHT 2005 ACS on STN

128:277019 **Silver halide color photographic**

material containing a developing agent of sulfoaminophenol or sulfonylhydrazine. Matsumoto, Kazuhiko; Nakamura, Takemare (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 10078638 A2 **19980324** Heisei, 74 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1996-251017 19960902.

GI



AB Claimed color **photog.** material contains a developing material I or II (R1-4 = H, alkyl, aryl, alkylcarboamide, arylcarbonamide, alkylsulfonamide, arylsulfonamide, alkylthio, arylthio, sulfamoyl, cyano, alkylsulfonyl, arylsulfonyl, alkylcarbonyloxy, arylcarbonyloxy, acyloxy; R5 = alkyl, aryl, heterocyclic group; Z = arom. or heterocyclic group), (2) a coupler releasing a cationic leaving group when reacted with the oxidized developing agent and (3) a coupler releasing a **photog.** useful compd. at a certain interval after the reaction with the oxidized developing agent. The **photog.** material is a thermal developing type without using a liq. developer soln., and provides color **images** with good color reprodn. quality, fine granularity and low stain d. Thus, developing agent I (R1 = Me; R2, R3 = H; R4 = dibutylamido; R5 = 2,4,6-tri-isopropylphenyl), bis(hexadecyl)meleinimido (coupler) and 1-phenyl-5-mercaptotetrazole-releasing coupler were incorporated in the dye diffusion transfer type thermal developing color **photog.** material.

IT **205386-45-4**

(coupler; color **photog.** material contg.

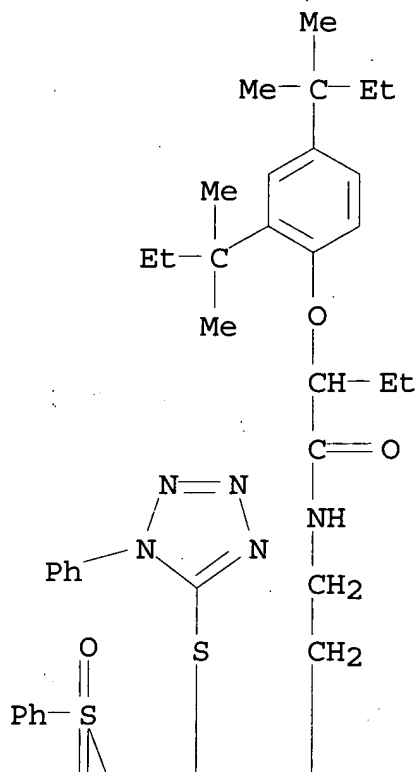
sulfoaminophenol or sulfonylhydrazine for thermal development)

RN 205386-45-4 HCA

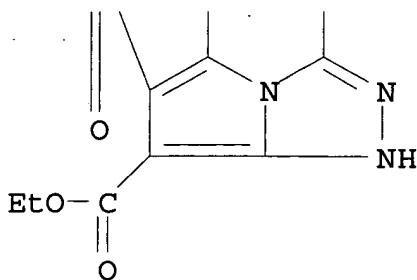
CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-7-carboxylic acid,

3-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]ethyl]-6-(phenylsulfonyl)-5-[(1-phenyl-1H-tetrazol-5-yl)thio]-, ethyl ester (9CI) (CA INDEX NAME)

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PAGE 2-A

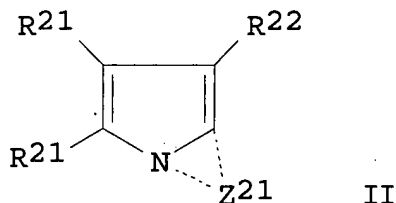
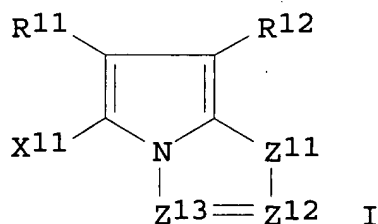


IC ICM G03C007-305
 ICS G03C001-42; G03C007-00; G03C007-32; G03C007-392; G03C008-40
 CC 74-2 (Radiation Chemistry, Photochemistry, and

- Photographic and Other Reprographic Processes)
- ST thermal development color **photog** material;
sulfoaminophenol developing agent **photog** material;
sulfohydrazide developing agent **photog** material; hetero
substituted hydrazine developing agent; maleimido coupler thermal
photog material; inhibitor releasing coupler **photog**
material
- IT **Photographic** couplers
 Photographic developers
 (color **photog.** material contg. sulfoaminophenol or
 sulfonylhydrazine for thermal development)
- IT **Photographic** couplers
 (development-inhibitor-releasing; color **photog.**
 material contg. sulfoaminophenol or sulfonylhydrazine for thermal
 development)
- IT **Photographic** films
 (heat-developable; color **photog.** material contg.
 sulfoaminophenol or sulfonylhydrazine for thermal development)
- IT 146495-95-6 152828-26-7 188894-90-8 204077-03-2 205386-42-1
205386-43-2 205386-44-3 **205386-45-4** 205649-04-3
 (coupler; color **photog.** material contg.
 sulfoaminophenol or sulfonylhydrazine for thermal development)
- IT 196105-81-4
 (developer; color **photog.** material contg.
 sulfoaminophenol or sulfonylhydrazine for thermal development)

L66 ANSWER 10 OF 39 HCA COPYRIGHT 2005 ACS on STN
125:208532 Thermally developable **photographic** material
containing magenta coupler. Morita, Kensuke (Fuji Photo Film Co
Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 08166664 A2 **19960625**
Heisei, 40 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
1994-309167 19941213.

GI



- AB The material contains light-sensitive **Ag halide**
grains, a coupler I or II [R11, R12 = electron-withdrawing group
having Hammett's .sigma. const. .gtoreq.0.2 (sum of the consts.

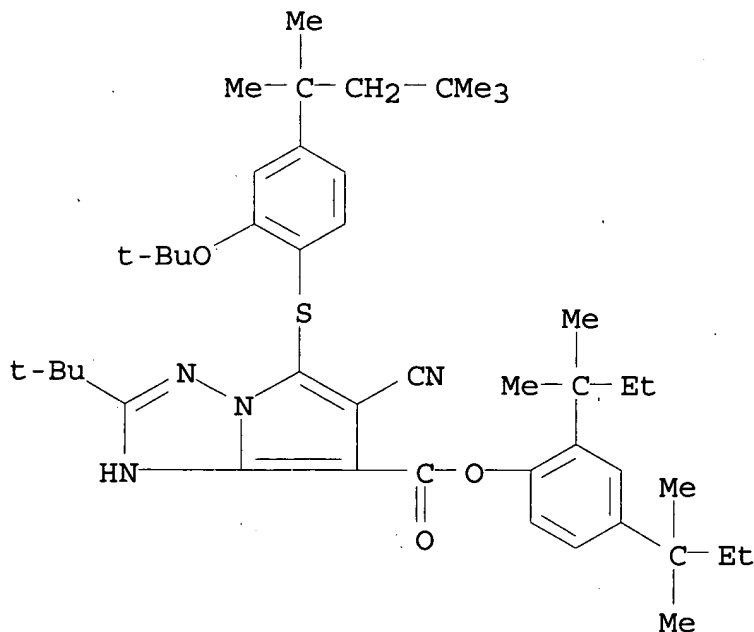
.gtoreq.0.65); Z11 = NH, CHR13; Z12 = CR14, N; Z13 = CR15, N; R13 = electron-withdrawing group having Hammett's .sigma. const. .gtoreq.0.2; R14, R15 = H, substituent; X11, X21 = H, leaving group; R21 = H, substituent; R22 = substituent; Z21 = nonmetal atom group forming 6-membered N-contg. heterocycle], and a color developing agent R1NHNHSO2R2 (R1 = arom. or arom. heterocyclic; R2 = alkyl, aryl, heterocyclic, alkoxy, amino). The material gives color **photog. images** with high sensitivity for short heating time.

IT 181364-66-9

(thermally developable **photog.** material contg. magenta coupler)

RN 181364-66-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-5-[[2-(1,1-dimethylethoxy)-4-(1,1,3,3-tetramethylbutyl)phenyl]thio]-2-(1,1-dimethylethyl)-, 2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI) (CA INDEX NAME)



IC ICM G03C008-40

ICS G03C008-40; G03C007-32; G03C008-36

CC 74-7 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST thermal development **photog** color material; photothermog copying magenta coupler pyrrole; sulfonyl hydrazine developer photothermog copying

IT Photothermographic copying

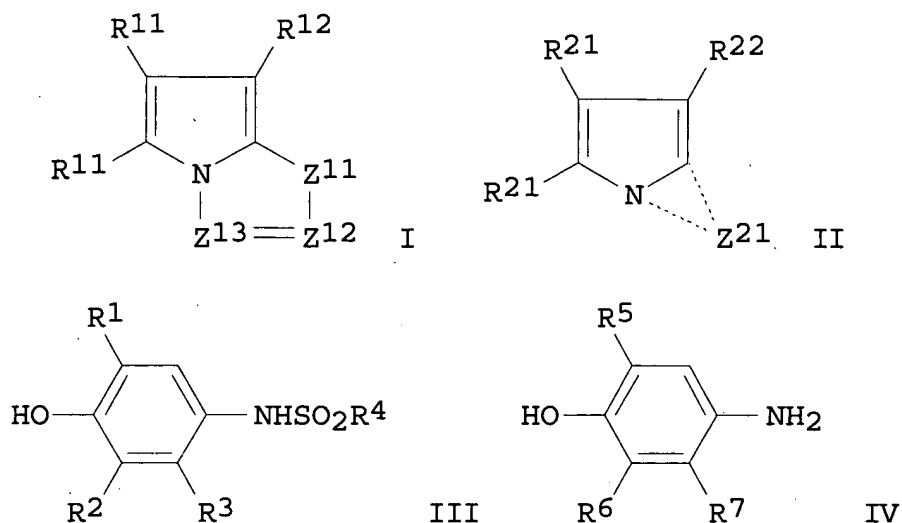
(thermally developable **photog.** material contg. magenta

- coupler)
- IT **Photographic** couplers
(magenta, pyrroles; thermally developable **photog.**
material contg. magenta coupler)
- IT 181364-69-2
(developing agent; thermally developable **photog.**
material contg. magenta coupler)
- IT 97991-66-7DP, derivs
(developing agent; thermally developable **photog.**
material contg. magenta coupler)
- IT 139152-09-3P 181364-70-5P
(in developing agent prepn. for thermally developable
photog. material)
- IT 90-02-8, Salicylaldehyde, reactions 302-01-2, Hydrazine, reactions
109871-07-0 139152-08-2, 1,2-Dichloro4,5-dicyanobenzene
(in developing agent prepn. for thermally developable
photog. material)
- IT 50-00-0, Formaldehyde, reactions 70-55-3, p-Toluenesulfonamide
(in prepn. of magenta coupler for thermally developable
photog. material)
- IT 151019-65-7 **181364-66-9** 181364-67-0 181364-68-1
(thermally developable **photog.** material contg. magenta
coupler)
- IT 181364-65-8DP, terminating group 181364-71-6DP, arom. heterocyclic
terminated
(thermally developable **photog.** material contg. magenta
coupler)
- IT 154021-52-0
(thermally developable **photog.** material contg. magenta
coupler)

L66 ANSWER 11 OF 39 HCA COPYRIGHT 2005 ACS on STN

125:154476 Thermally developable **silver halide**
photosensitive material. Morita, Kensuke (Fuji Photo Film Co Ltd,
Japan). Jpn. Kokai Tokkyo Koho JP 08122994 A2 **19960517**
Heisei, 40 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
1994-279716 19941020.

GI



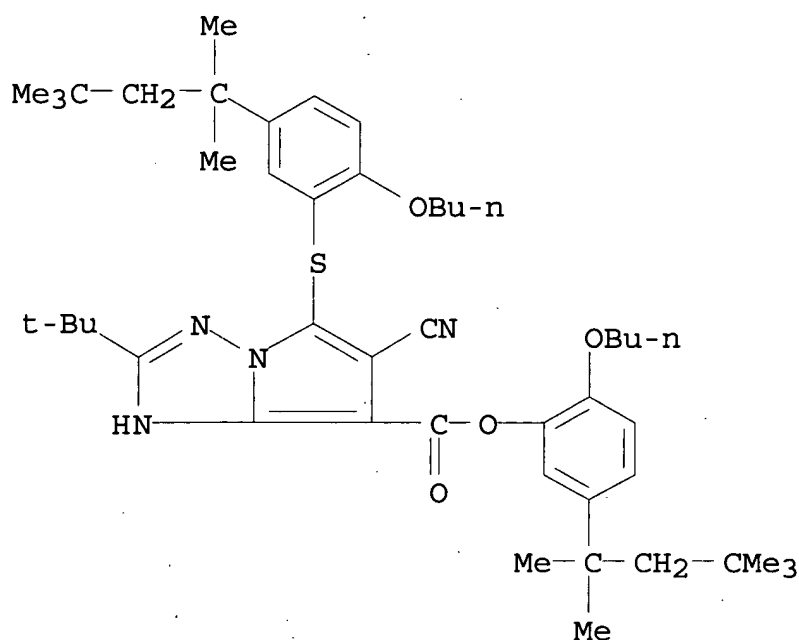
AB The material contains a coupler I [R11, R12 = electron-drawing group with Hammett's σ_p const. ≥ 0.2 and total ≥ 0.65 ; Z11 = NH, CH(R13); Z12 = CR14, N; Z13 = CR15, N; R13 = electron-drawing group with Hammett's σ_p const. ≥ 0.2 ; R14, R15 = H, substituent; X11 = leaving group] and/or II (R21 = H, substituent; R22 = substituent; Z21 = nonmetallic group forming 5-6-membered heterocycle; X21 = leaving group) and a developing agent III (R1, R2, R3 = H, halo, alkyl, aryl, alkoxy, aryloxy, carbamoyl, sulfamoyl, alkyloxycarbonyl, aryloxycarbonyl, acylamino, sulfonamido, formyl, etc.; R4 = alkyl, aryl, heterocyclic, alkoxy, amino) and/or IV (R5, R6, R7 = R1, R2, R3). The material shows high-d. color image.

IT 180094-03-5P

(cyan coupler; thermally developable silver halide photosensitive material)

RN 180094-03-5 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-2-(1,1-dimethylethyl)-, 2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl ester
(9CI) (CA INDEX NAME)



- IC ICM G03C008-40
ICS G03C007-38; G03C007-413
- CC 74-7 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST pyrazolotriazole cyan coupler silver photothermog; phenol developer
silver photothermog; thermal development silver **photog**
- IT **Photographic** developers
(phenol compds.; thermally developable **silver**
halide photosensitive material)
- IT Photothermographic copying
(thermally developable **silver halide**
photosensitive material)
- IT **Photographic** couplers
(cyan, pyrazolotriazoles; thermally developable **silver**
halide photosensitive material)
- IT 151019-65-7 180094-02-4
(cyan coupler; thermally developable **silver**
halide photosensitive material)
- IT 180094-01-3P 180094-03-5P
(cyan coupler; thermally developable **silver**
halide photosensitive material)
- IT 154021-52-0
(cyan coupler; thermally developable **silver**
halide photosensitive material)
- IT 5930-28-9 51767-45-4 180094-05-7
(developer; thermally developable **silver halide**

- photosensitive material)
- IT 180094-04-6P
(developer; thermally developable **silver halide** photosensitive material)
- IT 53572-73-9P 180094-06-8P
(phenol compd. developer prepn. for thermally developable **silver halide** photosensitive material)
- IT 96-97-9, 5-Nitrosalicylic acid 29710-58-5, 3,5-Dimethoxycarbonylbenzenesulfonyl chloride 180094-07-9
(phenol compd. developer prepn. for thermally developable **silver halide** photosensitive material)
- IT 50-00-0, Formaldehyde, reactions 70-55-3, p-Toluenesulfonamide (pyrazolotriazole **photog.** coupler prepn. for thermally developable **silver halide** photosensitive material)

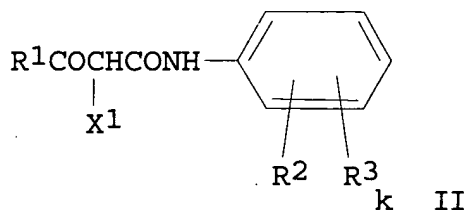
L66 ANSWER 12 OF 39 HCA COPYRIGHT 2005 ACS on STN

124:215868 **Silver halide** photosensitive materials.

Negoro, Masayuki; Morigaki, Masakazu (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07261350 A2 **19951013**

Heisei, 51 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-71296 19940317.

GI



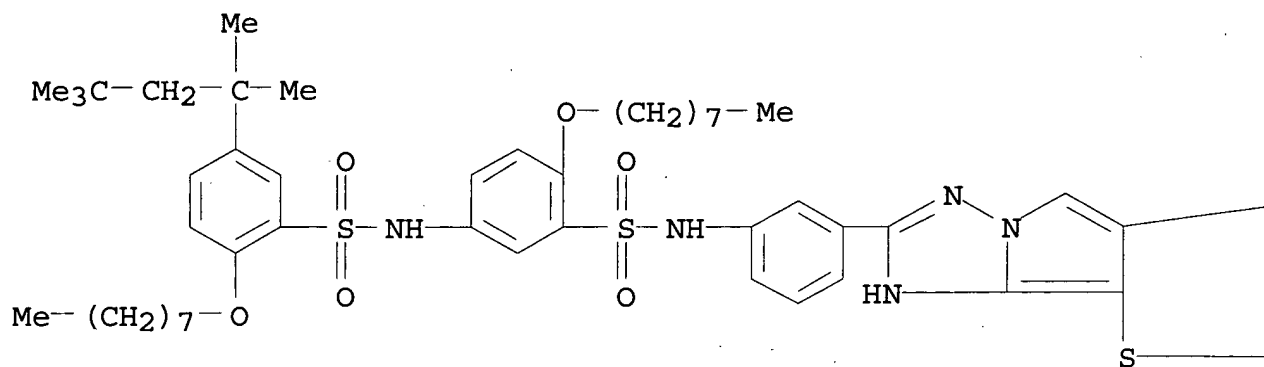
AB The title materials contain .gtoreq.1 compd. Ar1CH2S(:O)(:O)nCH2Ar2 (I; Ar1, Ar2 = aryl; n = 0, 1) in .gtoreq.1 layer formed on a support. The layer contg. I may be a yellow coupler-contg. layer, and the yellow coupler may be II (R1 = tert-alkyl, aryl, NR4R5; R2 = H, halo, alkoxy, aryloxy, alkyl, dialkylamino; R3 = substituent; X1 = H, releasing group by the reaction with primary amine color developer oxide; h = 0-4; R4-5 = alkyl, alkenyl, aryl, heterocycle, R4 and R5 may form a ring). The materials provide dye **images** with good color reproducibility and light fastness and show less stains on the unexposed areas.

IT **174213-95-7**
(magenta coupler; **photog.** film contg. coupler and color stabilizer)

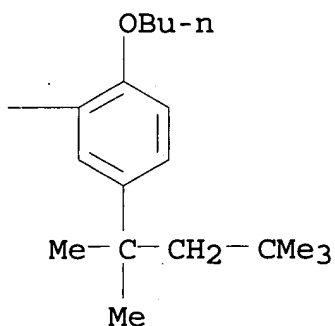
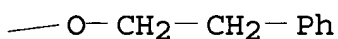
RN 174213-95-7 HCA

CN Benzenesulfonamide, N-[3-[[[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-phenylethoxy)-1H-pyrrolo[1,2-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IC ICM G03C007-392
ICS G03C007-00; G03C007-36; G03C007-38
CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
ST sulfoxide sulfone **photog** color stabilizer; coupler

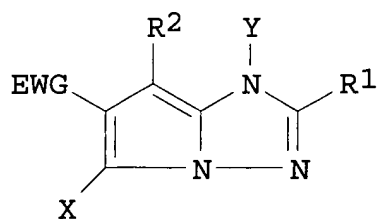
- photog** material
- IT **Photographic** couplers
(**photog.** film contg. coupler and color stabilizer)
- IT **Photographic** films
(**photog.** film contg. sulfone or sulfoxide compd. as color stabilizer)
- IT 151019-65-7 156772-91-7 158293-26-6 158462-58-9 174213-91-3
174213-92-4 174368-61-7
(cyan coupler; **photog.** film contg. coupler and color stabilizer)
- IT 174213-93-5 174213-94-6 **174213-95-7**
(magenta coupler; **photog.** film contg. coupler and color stabilizer)
- IT 174213-96-8P
(oxidn. of; prepn. of sulfoxide or sulfone compd. **photog.** color stabilizer)
- IT 620-32-6 7052-62-2 51439-45-3 66259-60-7 69511-16-6
74002-21-4 75773-13-6 81229-36-9 84355-04-4 84355-06-6
89929-65-7 89946-62-3 116089-83-9 129686-21-1 140201-11-2
160173-30-8 174213-84-4 174213-85-5 174213-86-6 174213-87-7
174213-88-8 174213-89-9
(**photog.** film contg. sulfone or sulfoxide compd. as color stabilizer)
- IT 174213-82-2P 174213-83-3P
(**photog.** film contg. sulfone or sulfoxide compd. as color stabilizer)
- IT 1313-82-2, Sodium sulfide, reactions 118468-30-7
(prepn. of sulfoxide or sulfone compd. **photog.** color stabilizer)
- IT 95050-16-1 146951-53-3 155218-20-5 160173-26-2 174213-90-2
(yellow coupler; **photog.** film contg. coupler and color stabilizer)

L66 ANSWER 13 OF 39 HCA COPYRIGHT 2005 ACS on STN

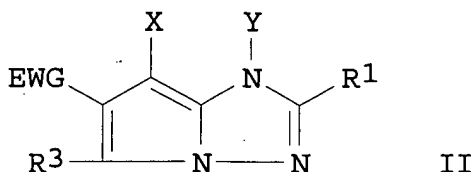
123:270643 Treatment of **silver halide** color

photographic materials with specific pyrrolotriazole compounds. Hirabayashi, Shigeto (Konishiroku Photo Ind, Japan). Jpn. Kokai Tokkyo Koho JP 07140617 A2 **19950602** Heisei, 31 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1993-283607 19931112.

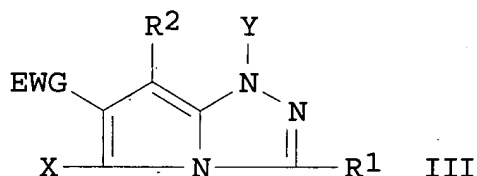
GI



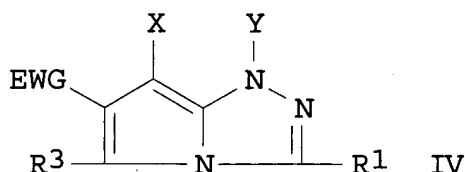
I



II



III



IV

AB In the treatment comprising direct inserting a solid treatment agent in the developing soln. of an automatic developing machine, .gtoreq.1 emulsion layer contains .gtoreq.1 cyan coupler compd. of I-IV [R1-3 and Y = H, substituent; EWG = electron attractive group of .sigma.p .gtoreq.0.3 (.sigma.p = Hammet's substituent const.); X = H, group leaving by a reaction with oxidized color development agent]. The treatment provides good light-resistant **images** and uniform sensitivity in running treatment.

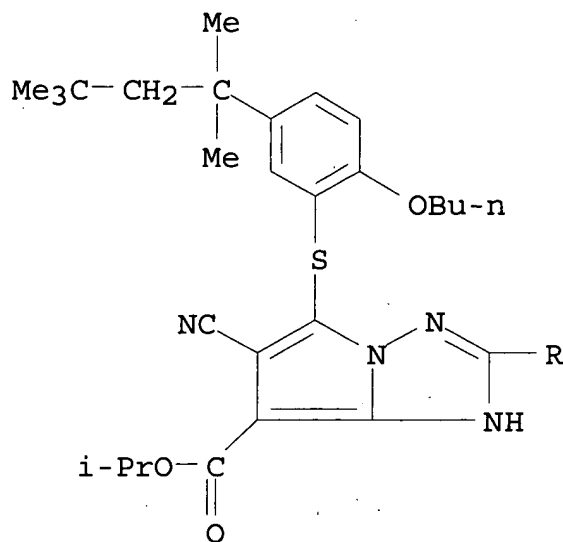
IT 150982-36-8 150982-37-9 151019-82-8
151019-83-9 169225-56-3

(silver halide photog. materials
with pyrrolo[1,2-b]triazole cyan couplers)

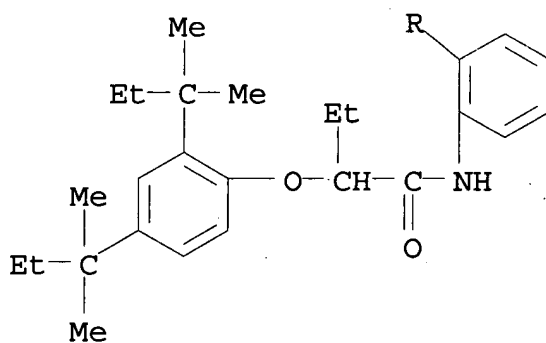
RN 150982-36-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid;
2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)

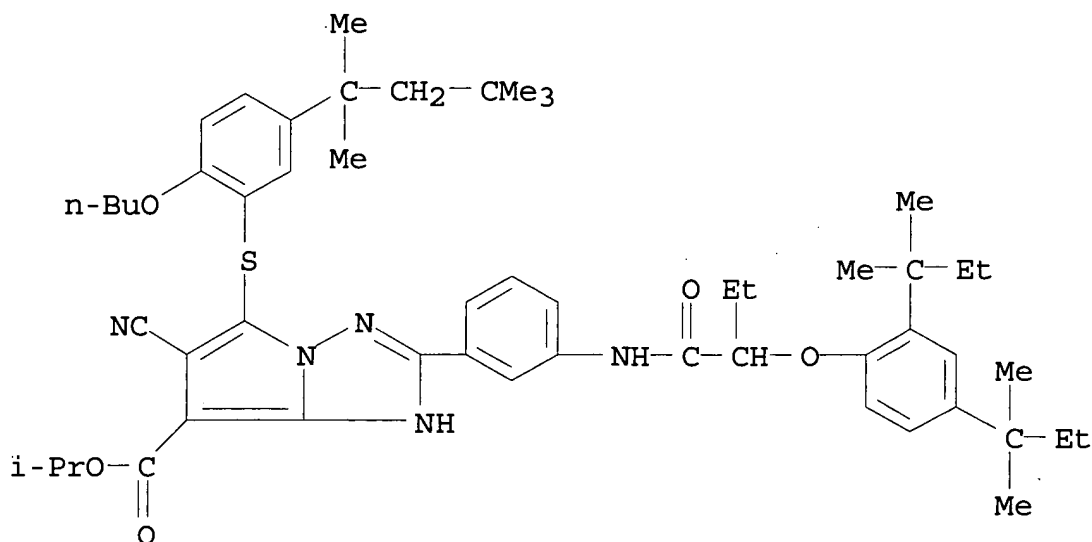
PAGE 1-A



PAGE 2-A

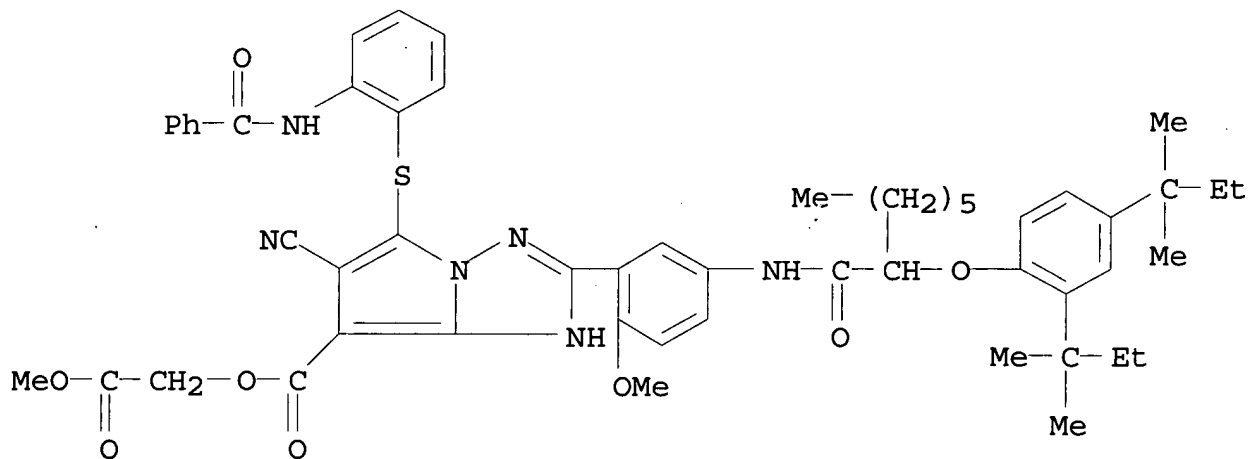


RN 150982-37-9 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
 (CA INDEX NAME)



RN 151019-82-8 HCA

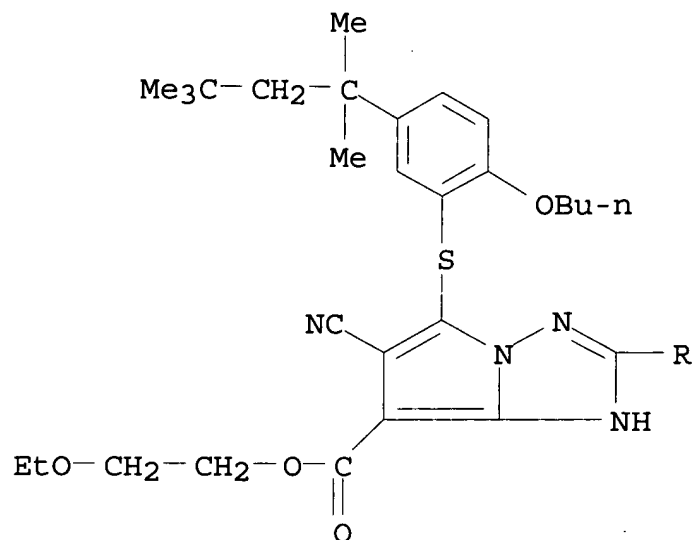
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[2-(benzoylamino)phenyl]thio]-2-[5-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxooctyl]amino]-2-methoxyphenyl]-6-cyano-,
 2-methoxy-2-oxoethyl ester (9CI) (CA INDEX NAME)



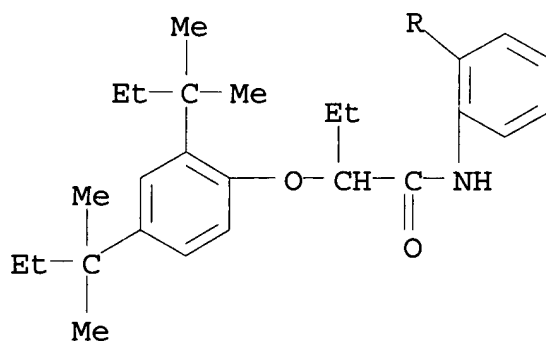
RN 151019-83-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 2-ethoxyethyl ester (9CI)
 (CA INDEX NAME)

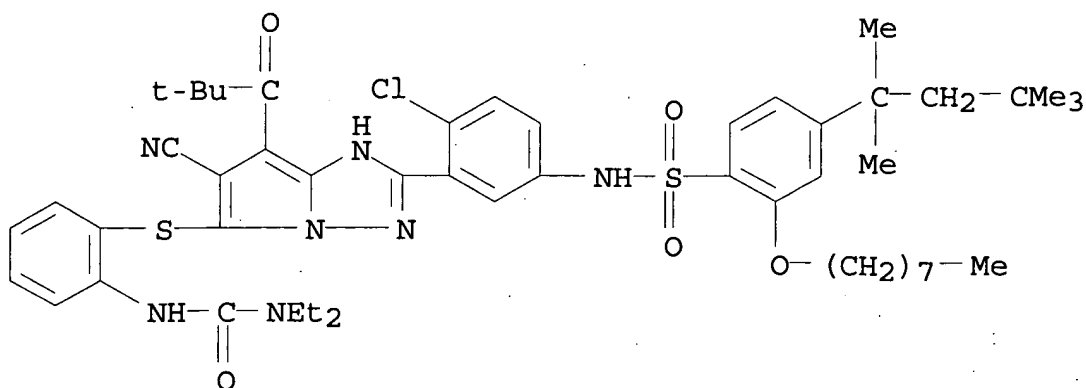
PAGE 1-A



PAGE 2-A



RN 169225-56-3 HCA
 CN Benzenesulfonamide, N-[4-chloro-3-[6-cyano-5-[[2-
 [[(diethylamino)carbonyl]amino]phenyl]thio]-7-(2,2-dimethyl-1-
 oxopropyl)-1H-pyrrolo[1,2-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-
 4-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



IC ICM G03C007-407
 ICS G03C005-26; G03C007-26; G03C007-38; G03C007-42; G03C007-44
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST **silver halide** color **photog** treatment;
 pyrrolotriazole cyan coupler **photog** material
 IT **Photographic** processing
 (automatic)
 IT **Photographic** couplers
 (cyan, pyrrolotriazoles as)
 IT 150982-36-8 150982-37-9 151019-65-7
 151019-82-8 151019-83-9 151865-61-1
 156122-99-5 161255-63-6 161255-77-2 161301-54-8 161301-60-6
 169225-54-1 169225-55-2 169225-56-3 169225-57-4
 169225-58-5 169225-59-6 169340-13-0
 (**silver halide photog.** materials
 with pyrrolotriazole cyan couplers)

L66 ANSWER 14 OF 39 HCA COPYRIGHT 2005 ACS on STN

123:97753 Color **photographic** material, **image**
 formation, and manufacture of color proof. Kato, Seiichi (Fuji
 Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 07064254 A2
 19950310 Heisei, 36 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1993-232396 19930825.

AB The material has a photosensitive laminate contg. .gtoreq.1 yellow
Ag halide emulsion layer, .gtoreq.1 magenta
Ag halide emulsion layer, and .gtoreq.1 cyan
Ag halide emulsion layer, where emulsion layers
 has .gtoreq.1 pan-photosensitive **Ag halide** layer
 at the nearest side of a support. **Images** are formed by
 exposing the material and developing with a soln. contg.
 H2N-1,4-C6H4N(R1)(R2OH) (R1 = alkyl; R2 = alkylene; R1 and R2 may
 form a ring). **Images** may be formed by exposing for
 .ltoreq.10-3 s and developing. The color proof is manufd. by

exposing the material using a cyan dot-**image** film, a magenta dot-**image** film, a yellow dot-**image** film, and a black dot-**image** film and developing. The material showed good dot reproductivity.

IT 164157-94-2

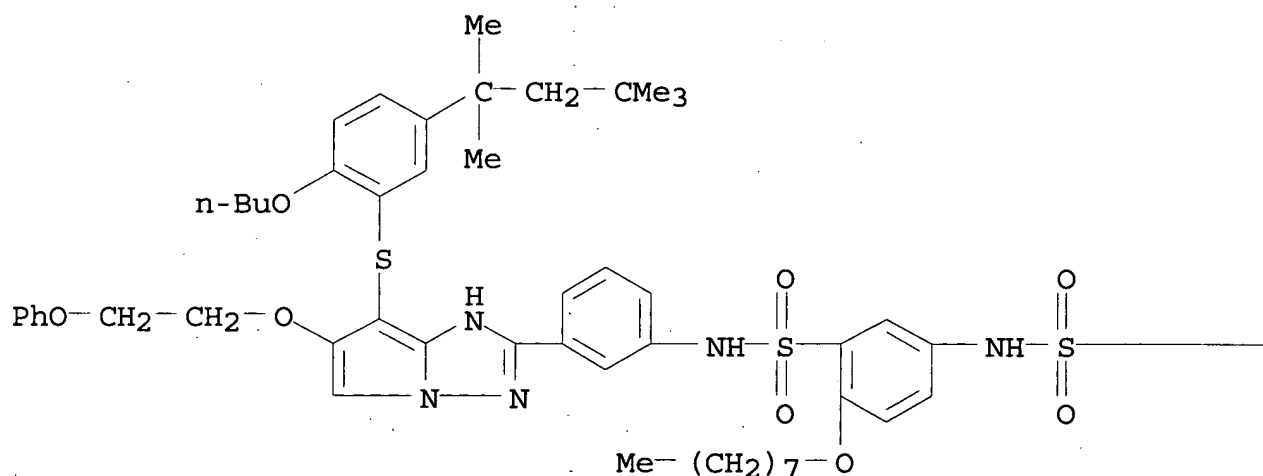
(**photog.** coupler; **silver halide**

photog. material, aminoaniline deriv. developing soln., and manuf. of color proof)

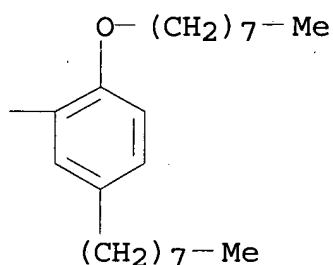
RN 164157-94-2 HCA

CN Benzenesulfonamide, N-[3-[[[3-[7-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-(2-phenoxyethoxy)-1H-pyrrolo[1,2-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-4-(octyloxy)phenyl]-5-octyl-2-(octyloxy)- (9CI) (CA INDEX NAME)

PAGE 1-A



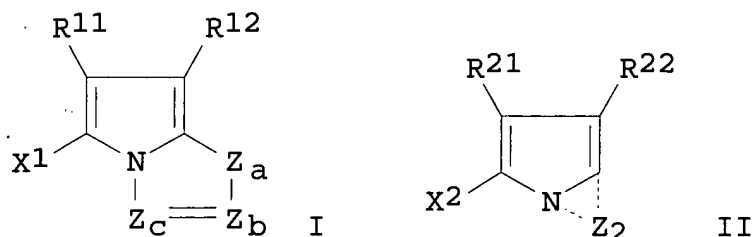
PAGE 1-B



- IC ICM G03C007-20
ICS G03C001-485; G03C005-08; G03C007-00; G03C007-26; G03C007-407; G03F003-10
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 25
- ST **silver halide photog** aminoaniline developer
- IT Graphic arts
(color proof; **silver halide photog.** material, aminoaniline deriv. developing soln., and manuf. of color proof)
- IT **Photographic couplers**
Photographic developers
Photographic emulsions
(**silver halide photog.** material, aminoaniline deriv. developing soln., and manuf. of color proof)
- IT 346-10-1 54942-74-4 95050-16-1 137320-46-8 146558-35-2
151745-02-7 164157-93-1 **164157-94-2** 164157-95-3
164157-96-4 164157-98-6 165754-73-4
(**photog.** coupler; **silver halide photog.** material, aminoaniline deriv. developing soln., and manuf. of color proof)
- IT 14623-68-8
(**silver halide photog.** material, aminoaniline deriv. developing soln., and manuf. of color proof)
- L66 ANSWER 15 OF 39 HCA COPYRIGHT 2005 ACS on STN
122:118794 **Silver halide color photographic**

material and processing of same. Kobayashi, Hidetoshi; Adachi, Keiichi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06186708 A2 **19940708** Heisei, 75 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1992-353761 19921215.

GI



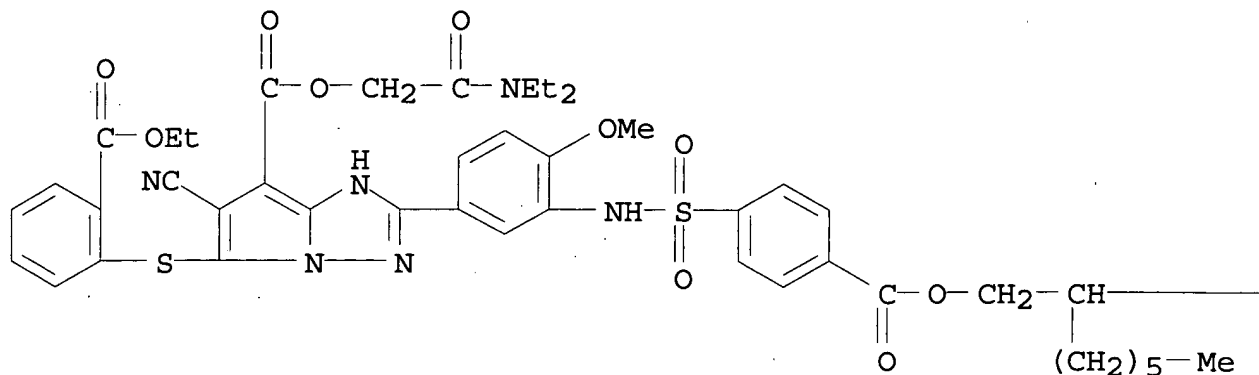
AB The title **photog.** material utilizing .gtoreq. 1 **Ag halide photog.** emulsion layers contains .gtoreq. 1 R-E1-L-E2-(T)m-PUG [E1, E2 = electrophilic group, L = single bond, linking group allowing the formation of a 5-7-membered ring via the reaction of E1 and E2 with nucleophilic moiety; R = H, substituent, T = timing group; PUG = **photog.** useful group; m = 0-2] and .gtoreq. 1 couplers selected from I and II [Za = NH, CH(R13); Zb, Zc = C(R14), N; R11, R12, R13 = electron withdrawing group with Hammett substituent const. .sigma.p .gtoreq. 0.20; the sum of the .sigma.p values for R11 and R12 is .gtoreq.0.65; R14, R21 = H, substituent; R22 = substituent,; Z2 = atoms required to form a 6-membered N heterocycle; X1, X2 = H, group releasable on reacting with primary arom. amine-type color developing agent]. The processing of the **photog.** material is effected in the presence of a di-nucleophilic-type reagent, such as hydroxylamines, hydroxamic acids, H2O2, hydrazines, diamines, etc.

IT **153004-06-9**(cyan coupler; color **photog.** material contg.)

RN 153004-06-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-5-[[2-(ethoxycarbonyl)phenyl]thio]-2-[3-[[[4-[[2-hexyldecyl)oxy]carbonyl]phenyl]sulfonyl]amino]-4-methoxyphenyl]-,
2-(diethylamino)-2-oxoethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— (CH₂)₇—Me

IC ICM G03C007-38
 ICS G03C007-305; G03C007-388; G03C007-392
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST color **photog** material filter dye
 IT **Photographic** films
 (color, filter dye fixing and decolorization improved)
 IT **Photographic** couplers
 (cyan, for **silver halide** color **photog**
 . material)
 IT 146822-29-9P 151019-75-9P 151019-76-0P
 (color **photog.** material from)
 IT 144266-85-3 151645-00-0 151645-05-5 **153004-06-9**
 154021-51-9 154021-60-0 154105-19-8 154105-20-1 155494-47-6
 155494-48-7 155926-12-8 156772-92-8 160745-45-9 160792-19-8
 (cyan coupler; color **photog.** material contg.)
 IT 151019-65-7P
 (cyan coupler; color **photog.** material contg.)

IT 134519-31-6 144215-04-3 159062-77-8 160745-35-7 160745-36-8
 160745-37-9 160745-38-0 160745-39-1 160745-40-4 160745-41-5
 160745-42-6 160745-43-7 160745-44-8

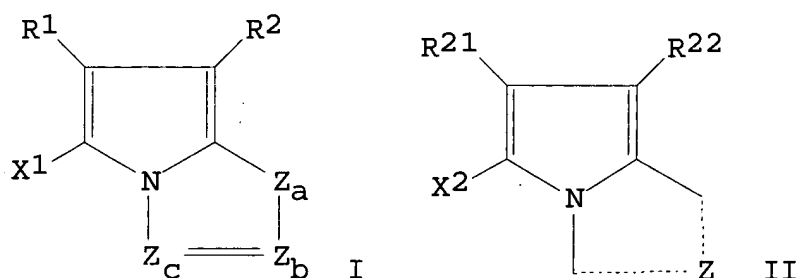
(precursor for **photog.** useful compd; color
photog. material contg.)

L66 ANSWER 16 OF 39 HCA COPYRIGHT 2005 ACS on STN

122:42587 **Silver halide color photographic**

material with improved **photographic** performance and shelf
 life. Obayashi, Keiji; Shimada, Yasuhiro (Fuji Photo Film Co Ltd,
 Japan). Jpn. Kokai Tokkyo Koho JP 06003782 A2 **19940114**
 Heisei, 121 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
 1992-180616 19920616.

GI



AB The title material comprises a non-coloring, non-diffusive
 carboxylic acid (salt) and a cyan coupler I or II [Za = NH, CHR13;
 Zb, Zc = CR14, N; R11-13 = electron-withdrawing group having Hammett
 substituent const. (.sigma.p).gtoreq.0.20 with (.sigma.p of
 R11)+(.sigma.p of R12).gtoreq.0.65; R14, R21 = H, substituent; R22 =
 substituent; Z = non-metal atoms forming N-contg. 6-membered
 heterocycle with .gtoreq.1 dissociative substituent; X1, X2 = group
 leaving upon coupling with oxidized arom. primary amine developing
 agent]. The title material also contains A(L1)j(L2)m(L3n-PUG)s or
 AL4L5-PUG [A = coupler residue, redox group; L1, L3 = divalent
 timing group; L2 = .gtoreq.3-valent timing group; PUG =
photog. useful group; j, n = 0-2; m = 1, 2; s .gtoreq.2; L4
 = OCO, OSO, OSO2, OCS, SOC, SCS, WCR11R12; W = O, S, NR13; R11-12 =
 H, substituent; R13 = substituent; L5 = group releasing PUG upon
 electron transfer, L4].

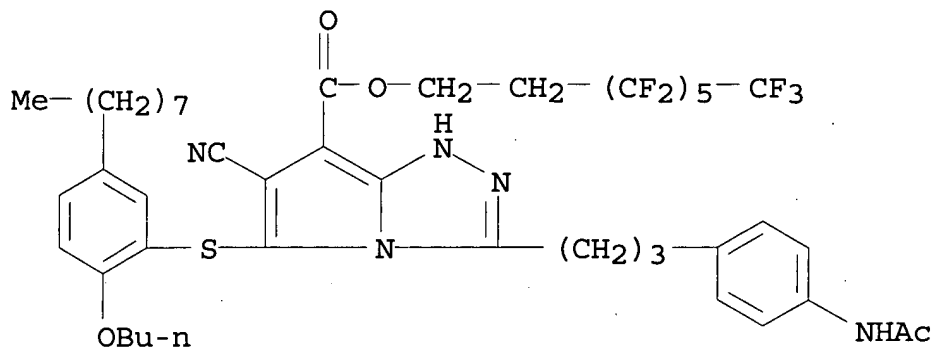
IT **158035-36-0**

(cyan coupler, for improved **photog.** performance)

RN 158035-36-0 HCA

CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-7-carboxylic acid,
 3-[3-[4-(acetylamino)phenyl]propyl]-5-[(2-butoxy-5-octylphenyl)thio]-
 6-cyano-, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester (9CI)

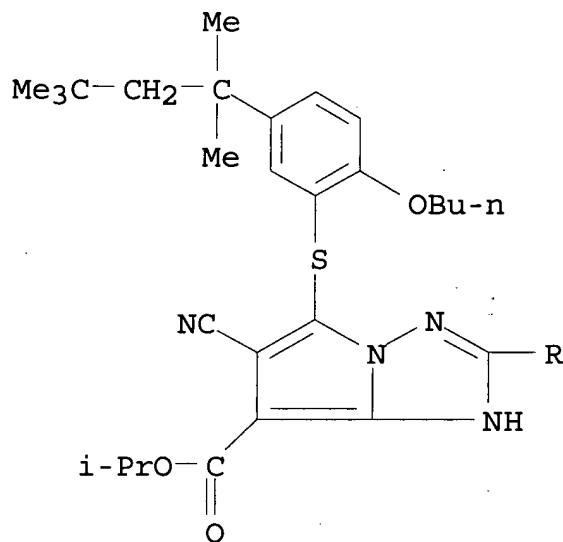
(CA INDEX NAME)



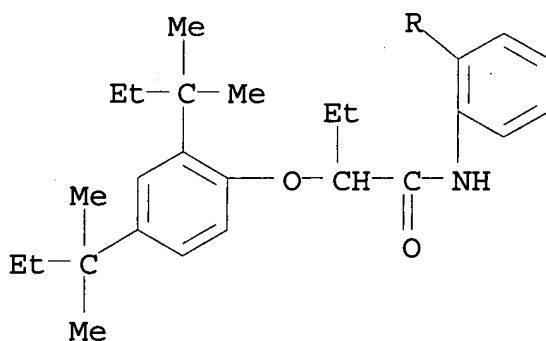
- IC ICM G03C007-38
ICS G03C007-305; G03C007-392
- CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
- ST **photog** cyan coupler carboxylic acid; development inhibitor
releasing compd **photog**
- IT **Photographic** development
(development inhibitor-releasing compds for)
- IT Carboxylic acids, uses
(**photog.** emulsions contg., for high-performance
photog.)
- IT **Photographic** paper
(color, with superior **photog.** properties)
- IT **Photographic** couplers
(cyan, for improved **photog.** performance)
- IT 145601-00-9 148398-08-7 155363-44-3
(DIR coupler, for improved **photog.** performance)
- IT 144266-85-3 151645-00-0 151645-05-5 151645-10-2 151645-12-4
151645-14-6 154021-48-4 154021-49-5 154021-59-7 154021-60-0
154105-22-3 155926-12-8 155926-13-9 155926-17-3 156262-24-7
156740-16-8 157516-73-9 158035-30-4 158035-35-9
158035-36-0 158035-37-1 158907-87-0
(cyan coupler, for improved **photog.** performance)
- IT 5036-92-0 13402-96-5 14230-52-5 40596-46-1 54680-48-7
55205-50-0 63494-23-5 69080-86-0 72076-45-0 87017-00-3
116356-90-2 116624-98-7 116625-04-8 116646-28-7 121700-11-6
122890-93-1 158035-39-3 158035-40-6 158035-41-7 158035-42-8
158035-43-9 159028-35-0
(non-diffusive, **photog.** material contg., for improved
photog. performance)
- IT 144291-02-1P 144365-57-1P 146495-94-5P 146495-95-6P
148398-05-4P 150114-50-4P 154161-35-0P
(prepn. and use of, DIR coupler, for improved **photog.**)

- performance)
IT 151019-65-7P 151645-01-1P
(prepn. and use of, as cyan coupler, for improved **photog**
. performance)
- L66 ANSWER 17 OF 39 HCA COPYRIGHT 2005 ACS on STN
122:20315 processing method for color **photographic** material.
Hayashi, Hiroshi (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo
Koho JP 05341470 A2 **19931224** Heisei, 93 pp. (Japanese).
CODEN: JKXXAF. APPLICATION: JP 1992-168280 19920604.
- GI For diagram(s), see printed CA Issue.
- AB In processing a color **photog.** material comprising, on
.gtoreq.1 side of a support, .gtoreq.1 layer contg. a
diffusion-resistant oil-sol. coupler for forming a dye upon coupling
with an oxidized arom. primary amine developing agent and a
silver halide emulsion, the coupler is represented
by the formula I (X = an org. group necessary for forming a N-contg.
heterocyclic group along with the N atom; Y = an arom. or
heterocyclic group; Z = a group releasable upon reaction with the
oxidized developing agent) and the **photog.** material is
fixed, after color development, in a soln. contg. .gtoreq.1 compd.
selected from the group consisting of thioethers, mesoionic compds.,
and N-contg. heterocyclic compds. contg. sulfide groups.
- IT **150982-36-8**
(cyan **photog.** coupler)
- RN 150982-36-8 HCA
- CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-
oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-
tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)

PAGE 1-A



PAGE 2-A



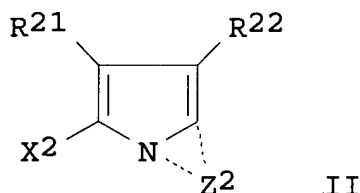
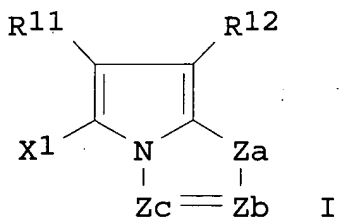
- IC ICM G03C007-42
ICS G03C001-035; G03C007-36; G03C007-38
- CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST fixing processing color **photog** material; thioether fixer
color **photog** material; mesoionic compd fixer color
photog
- IT **Photographic** couplers
(acetamide derivs. as, diffusion-resistant)
- IT **Photographic** processing
(color, fixing solns. contg. thioethers and nitrogen-contg.)

- heterocyclic compds. for)
- IT 150982-36-8
(cyan **photog.** coupler)
- IT 143324-21-4P 143324-22-5P 150982-32-4P 150982-34-6P
152586-71-5P 152586-72-6P 152586-73-7P 157973-58-5P
(prepn. and reaction of, in prepg. cyan **photog.**
coupler)
- IT 153504-51-9P 153504-52-0P
(prepn. and reaction of, in prepg. yellow **photog.**
coupler)
- IT 143324-37-2P 143779-40-2P
(prepn. and use of, as cyan **photog.** coupler)
- IT 157973-56-3P
(prepn. and use of, as yellow **photog.** coupler)
- IT 70-23-5 99067-72-8 109871-03-6 125666-25-3,
1H-Pyrrole-3,4-dicarbonitrile 130367-21-4 140859-54-7
152586-69-1 152586-70-4
(reaction of, in prepg. cyan **photog.** coupler)
- IT 120-72-9, 1H-Indole 157516-87-5
(reaction of, in prepg. yellow **photog.** coupler)
- IT 147495-63-4 153504-55-3 153504-60-0 157516-90-0 157973-52-9
157973-53-0 157973-54-1 157973-55-2 157973-57-4
(yellow **photog.** coupler)

L66 ANSWER 18 OF 39 HCA COPYRIGHT 2005 ACS on STN

121:289517 Color **silver halide photographic**
material. Kobayashi, Hidetoshi (Fuji Photo Film Co Ltd, Japan).
Jpn. Kokai Tokkyo Koho JP 06102639 A2 19940415 Heisei, 85
pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1992-277732
19920924.

GI



AB In the title color **photog.** material comprising .gtoreq.1
Ag halide photog. emulsion layers on its
support, at least 1 of the **photog.** emulsions is
Te-sensitized, and the **photog.** material contains a cyan
coupler selected from I and II [Za = NH, CHR13; Zb, Zc = -C(R14)=,

N; R11-13 = electron-withdrawing group of Hammett's substituent const. .gtoreq.0.20; R14,21 = H, substituent; R22 = substituent; Z2 = non-metallic atoms required to complete a 6-membered N-contg. heterocyclic ring; X1,2 = H, group releasable on coupling reaction with oxidized arom. amine developing agent]. This material shows high photosensitivity and low fog level.

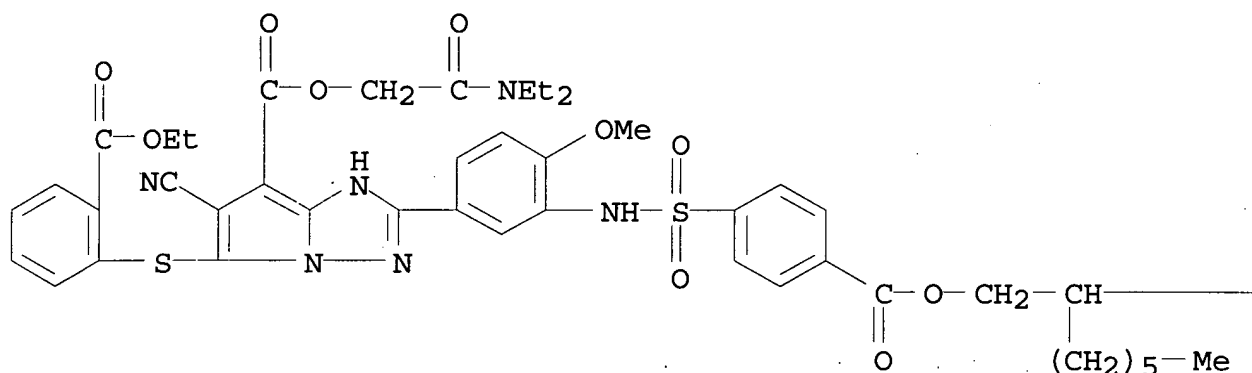
IT 153004-06-9

(cyan photog. coupler)

RN 153004-06-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-5-[[2-(ethoxycarbonyl)phenyl]thio]-2-[3-[[[4-[[2-hexyldecyl)oxy]carbonyl]phenyl]sulfonyl]amino]-4-methoxyphenyl]-, 2-(diethylamino)-2-oxoethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— (CH₂)₇—Me

IC ICM G03C007-38

ICS G03C001-09

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST color **photog** material cyan coupler; tellurium sensitizer
photog
 IT **Photographic** sensitizers
 (Tellurium sensitizer for color **photog.** material)
 IT **Photographic** couplers
 (cyan, for low fog level and good storageability)
 IT 144266-85-3 151645-00-0 151645-01-1 151645-05-5 151645-07-7
 151645-09-9 151645-16-8 **153004-06-9** 154021-51-9
 154021-60-0 154105-16-5 154105-19-8 154105-20-1 154105-22-3
 154105-26-7 155494-47-6 155494-48-7 155494-52-3 155926-12-8
 156262-24-7 156262-26-9 156772-90-6 156772-92-8 157516-74-0
 157516-75-1 158035-35-9 158546-44-2 158600-65-8 158894-70-3
 159082-04-9 159082-05-0 159082-06-1
 (cyan **photog.** coupler)
 IT 2935-46-8 21992-94-9 73475-28-2, Benzenecarbotelluroamide
 75523-51-2 107728-32-5 147273-53-8 147623-14-1 154924-28-4
 154924-29-5 154924-30-8 159082-03-8
 (**photog.** tellurium sensitizer)

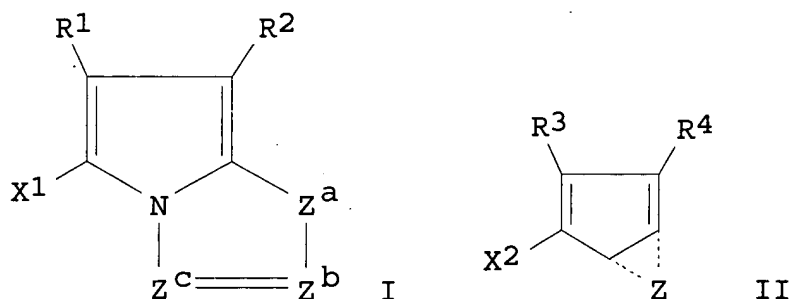
L66 ANSWER 19 OF 39 HCA COPYRIGHT 2005 ACS on STN

121:267669 **silver halide color photographic**

material. Ishii, Yoshio; Kawagishi, Toshio; Morita, Kensuke (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 06083002 A2 19940325 Heisei, 99 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1992-260559 19920904.

GI



AB A **silver halide color photog.** material showing improved storage stability and color reproducibility and exhibiting decreased background staining after processing comprises a cyan coupler represented by the formula I or II ($Z^a = \text{NH}$ or CHR^5 ; $Z^b, Z^c = \text{N}$ or CR^6 ; $R^1, R^2, R^5 =$ an electron-attracting group having a Hammett's substituent const. σ_p of ≥ 0.20 with the sum

of the .sigma.p values for R1 and R2 being .gtoreq.0.65; R3, R6 = H or a substituent group; R4 = a substituent group; Z = a nonmetallic group for forming a N-contg. 6-membered ring; X1, X2 = H or a group to be released upon coupling reaction with an oxidized arom. primary amine developing agent) and a compd. represented by the formula AB (A = a group which releases the group B upon reaction with an oxidized developing agent and forms a compd. not contributing to the formation of a color **image**; B = a group which releases from the compd. upon coupling reaction with an oxidized developing agent).

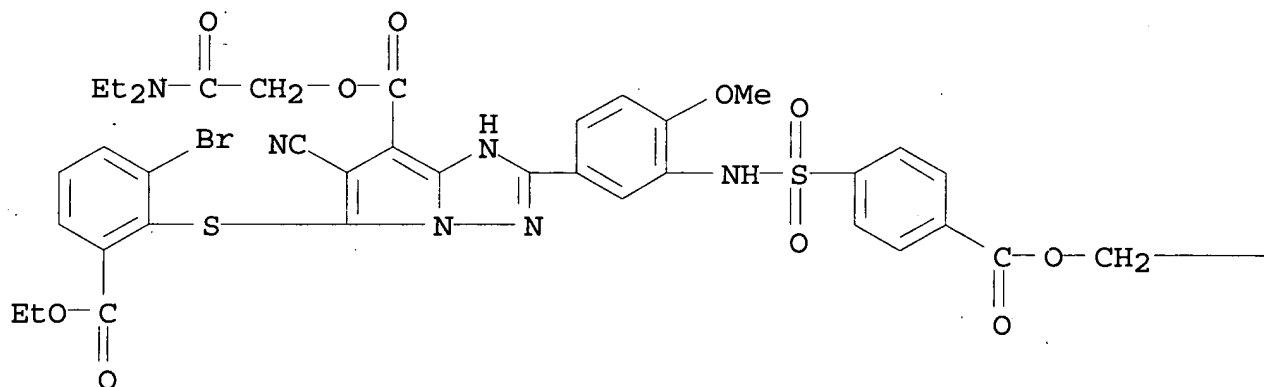
IT 158718-58-2

(cyan **photog.** coupler)

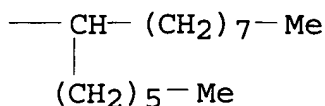
RN 158718-58-2 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 5-[[2-bromo-6-(ethoxycarbonyl)phenyl]thio]-6-cyano-2-[3-[[[4-[[[2-hexyldecyl]oxy]carbonyl]phenyl]sulfonyl]amino]-4-methoxyphenyl]-, 2-(diethylamino)-2-oxoethyl ester (9CI) (CA INDEX NAME)

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PAGE 1-B



IC ICM G03C007-38
ICS G03C007-305; G03C007-392

CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST **silver halide color photog** material;
coupler **photog** cyan pyrroloazole

IT **Photographic** emulsions
(color, contg. pyrroloazoles for improved color reproducibility)

IT **Photographic** couplers
(cyan, pyrroloazoles as)

IT 151019-65-7 151645-01-1 154021-59-7 154021-63-3 155926-12-8
156233-84-0 **158718-58-2**
(cyan **photog.** coupler)

IT 2425-77-6 2905-62-6 3044-06-2 54153-51-4 146822-29-9
150172-54-6 151019-75-9 151019-76-0 154021-47-3
(**photog.** coupler prepn. using)

IT 91137-52-9 113824-73-0 158574-65-3 158718-70-8 158718-71-9
(**photog.** material additive prepn. using)

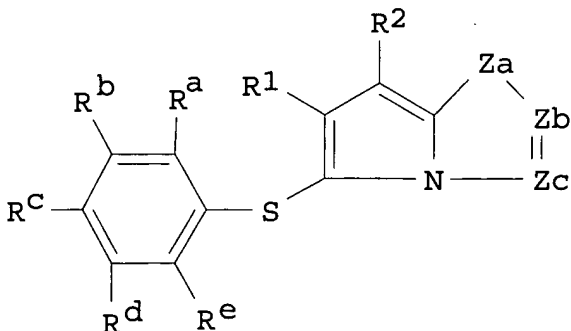
IT 91377-29-6 158718-59-3 158718-60-6 158718-61-7 158718-62-8
158718-63-9 158718-64-0 158718-65-1 158718-66-2 158718-67-3
158718-68-4 158718-69-5 158760-50-0 158760-51-1
(**silver halide color photog.**
materials contg.)

L66 ANSWER 20 OF 39 HCA COPYRIGHT 2005 ACS on STN

121:267601 **Silver halide color photographic**

material. Shimada, Yasuhiro; Yoneyama, Hiroyuki (Fuji Photo Film Co
Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 05323536 A2 **19931207**
Heisei, 48 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
1992-157332 19920526.

GI



I

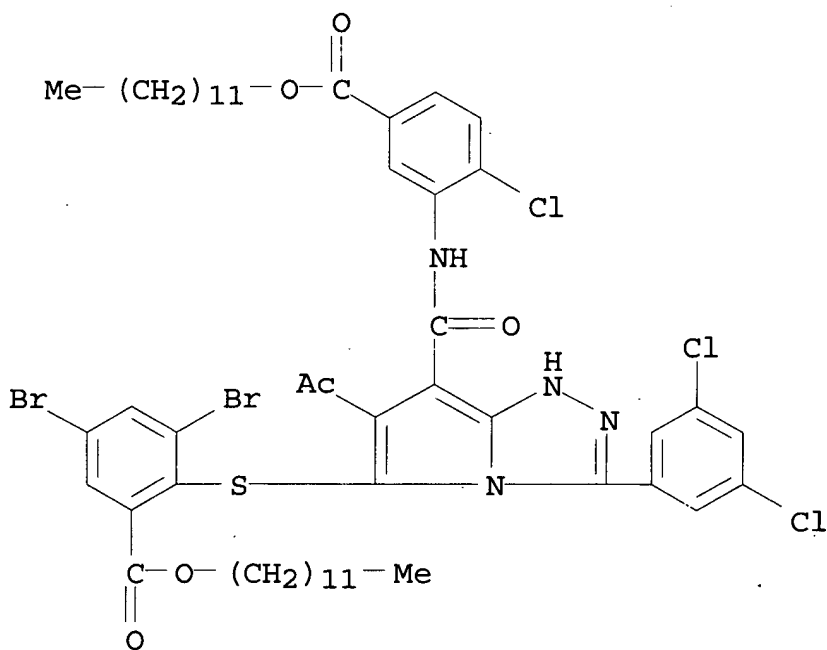
AB The title material has .gtoreq.1 layer(s) contg. a cyan coupler I [Za = NH, CHR3; Zb, Zc = CR4, N; R1-3 = electron-withdrawing group having a Hammett substituent const. .sigma.p .gtoreq.0.20 with (.sigma.p of R1)+(.sigma.p of R2).gtoreq.0.65; R4, Ra-e is an electron-withdrawing group; sum of .sigma.ps of Ra-e is .gtoreq.0.5 or .gtoreq.0.15 with .gtoreq.2 of Ra-e being Fs]. The cyan coupler showed a superior stability in the **photog.** material, good color rendition and gave stable color pictures.

IT 158600-49-8

(cyan coupler, with improved stability)

RN 158600-49-8 HCA

CN Benzoic acid, 2-[[6-acetyl-7-[[[2-chloro-5-[(dodecyloxy)carbonyl]phenyl]amino]carbonyl]-3-(3,5-dichlorophenyl)-1H-pyrrolo[2,1-c]-1,2,4-triazol-5-yl]thio]-3,5-dibromo-, dodecyl ester (9CI) (CA INDEX NAME)



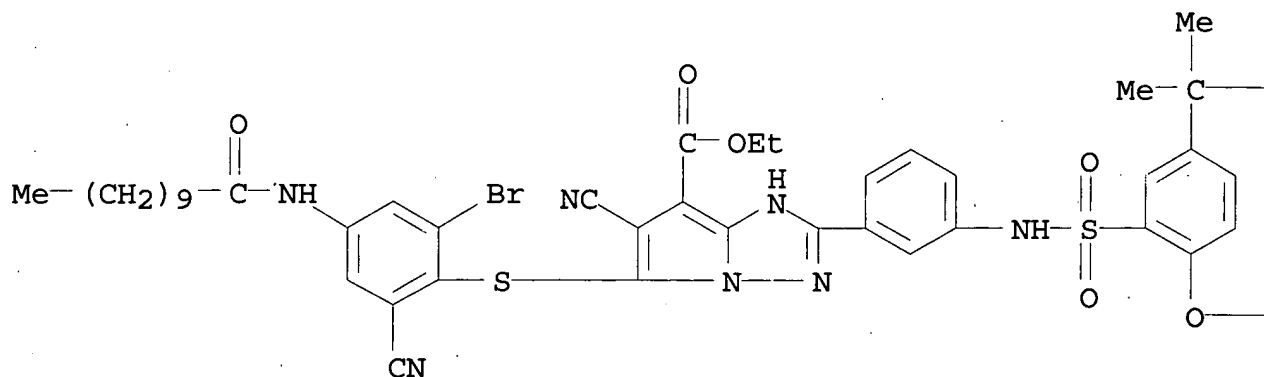
IT 158600-47-6P

(prepn. and use of, as cyan coupler, with improved stability)

RN 158600-47-6 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 5-[[2-bromo-6-cyano-4-[(1-oxoundecyl)amino]phenyl]thio]-6-cyano-2-[3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)

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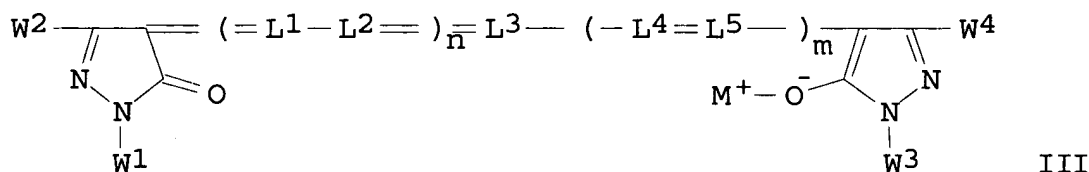
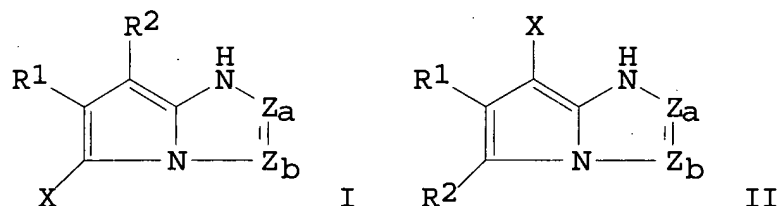
—CH₂—CMe₃—(CH₂)₇—Me

- IC ICM G03C007-38
 CC **74-2** (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 Section cross-reference(s): 28
 ST color **photog** cyan coupler stability
 IT **Photographic** emulsions
 (color, for stability **images**)
 IT **Photographic** couplers
 (cyan, with good stability and color rendition)
 IT 158600-48-7 **158600-49-8** 158600-50-1 158793-08-9
 158793-09-0
 (cyan coupler, with improved stability)
 IT **158600-47-6P**
 (prepn. and use of, as cyan coupler, with improved stability)

L66 ANSWER 21 OF 39 HCA COPYRIGHT 2005 ACS on STN
 121:217483 **Silver halide** color **photographic**
 photosensitive material. Shono, Akiko (Fuji Photo Film Co Ltd,

Japan). Jpn. Kokai Tokkyo Koho JP 05297539 A2 19931112
 Heisei, 69 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
 1992-122881 19920417.

GI



AB In the title material having on a reflective support **photog** . constituent layers, .gtoreq.1 of the cyan color-forming **Ag halide** emulsion layers contains .gtoreq.1 kind(s) of cyan couplers I [Za, Zb = C(-R3), N, 1 of them is C(-R3) and the other is N; R1, 2 = electron-withdrawing group having Hammett's substituent const. .sigma.p >0.2, their sum of .sigma.p >0.65; R3 = H, substituent; X = H, group to be eliminated upon coupling; R1-3 and X may form divalent groups which may bond to a polymer larger than a dimer or a polymer chain to form homopolymer or copolymer] or II (all variable substituents are the same as above) and any 1 of the **photog**. constituent layers contains .gtoreq.1 of compds. III (W1, W3 = aliph. group, arom. group, heterocyclic group; W2, W4 = OW5, CO2W5, NW5W6, CONW5W6, etc.; W5, W6 = H, aliph. group, arom. group; W5 and W6 or W6 and W7 may bond together to form a 5- or 6-membered ring; L1-5 = methine group; n, m = 0, 1; M+ = H, monovalent cation). The material shows superior sharpness and color reprodn. without causing variations in **photog**. performance such as color performance, etc.

IT 150982-36-8

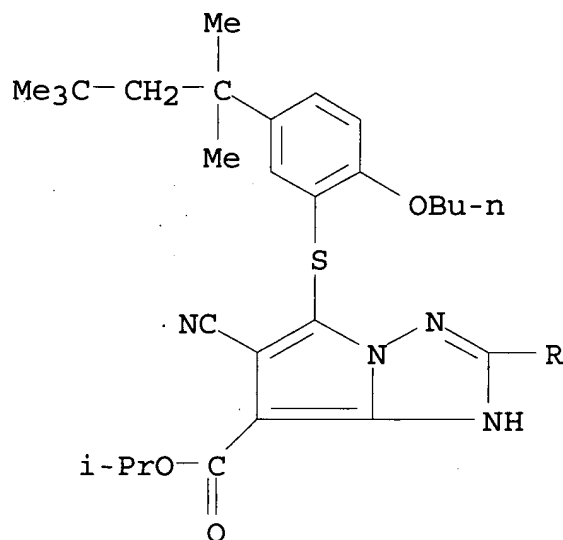
(cyan **photog**. coupler, for improved color reprodn and sharpness)

RN 150982-36-8 HCA

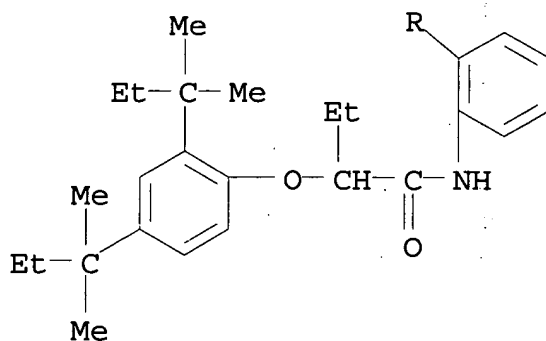
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-

tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)

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- IC ICM G03C007-38
ICS G03C001-047; G03C001-83
CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
ST **silver halide** color **photog** material;
cyan **photog** coupler oxonol dye; color reprodn sharpness
photog paper
IT **Photographic** paper

(color, with improved color reprodn and sharpness)

IT **Photographic** couplers

(cyan, pyrrolotriazoles as)

IT 143779-39-9 **150982-36-8** 151019-66-8 154217-48-8
158061-71-3

(cyan **photog.** coupler, for improved color reprodn and sharpness)

IT 108910-30-1 115345-41-0 118156-04-0 124622-14-6 146692-68-4
152268-69-4 158061-72-4 158061-73-5 158061-74-6

(**photog.** constituent layer contg., for improved color reprodn and sharpness)

IT 143324-20-3P 143324-21-4P 143324-22-5P 150982-33-5P
150982-34-6P

(prepn. and reaction of, for cyan **photog.** coupler)

IT 143324-37-2P 143779-40-2P

(prepn. and use of, as cyan **photog.** coupler)

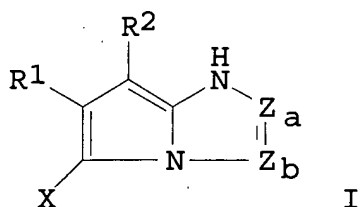
L66 ANSWER 22 OF 39 HCA COPYRIGHT 2005 ACS on STN

121:95793 Method for forming a color **image**. Kawai, Kiyoshi

(Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 556858 A1
19930825, 84 pp. DESIGNATED STATES: R: DE, FR, GB.

(Japanese). CODEN: EPXXDW. APPLICATION: EP 1993-102688 19930219.
PRIORITY: JP 1992-72711 19920221.

GI



AB There is disclosed a method for forming a color **image** using a **Ag halide** color **photog.**

material having 3 **Ag halide** photosensitive

layers on a support, comprising, in a cyan color-forming

coupler-contg. photosensitive layer, a cyan dye-forming coupler

represented by formula I [Z_a and Z_b = -C(R₃): or -N:, provided that 1 of Z_a and Z_b = -N: and the other one is -C(R₃):; R₁ and R₂ each =

an electron-attracting group; R₃ = H atom or a substituent; and X = a H atom or a coupling-off group, provided that R₁, R₂, R₃, or X may be a divalent group, to form a dimer or higher polymer, or to bond to a polymer chain to form a homopolymer or copolymer; R₂ and X may interchange their positions]. The material can be used for scanning exposure.

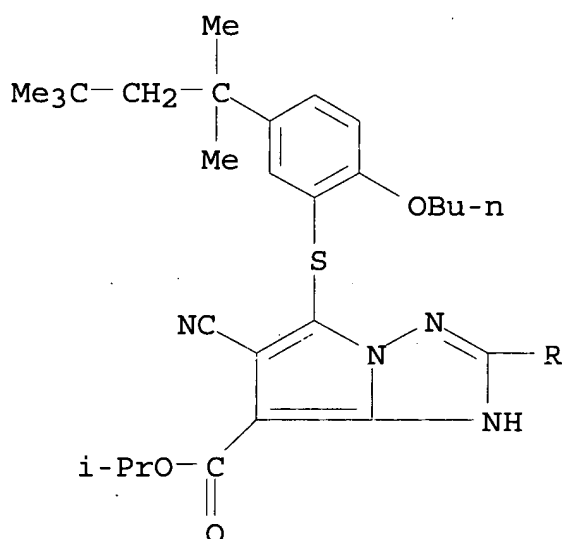
IT 150982-36-8

(photog. cyan coupler)

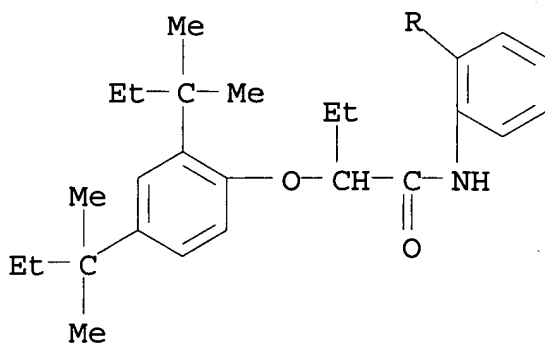
RN 150982-36-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
 (CA INDEX NAME)

PAGE 1-A



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IC ICM G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and

Photographic and Other Reprographic Processes)

Section cross-reference(s): 41

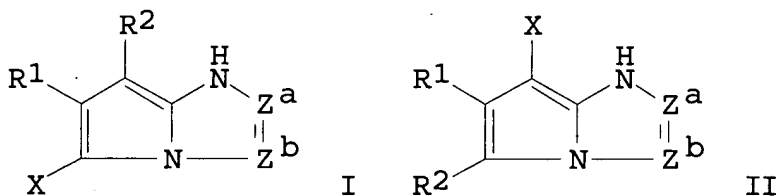
- ST cyan coupler **photog** pyrrolopyrrole; paper **photog**
color scanning exposure
- IT **Photographic** paper
(color, for scanning exposure)
- IT **Photographic** couplers
(cyan, pyrrolopyrrole)
- IT 150982-35-7 **150982-36-8** 151019-64-6 151019-66-8
156440-79-8
(**photog.** cyan coupler)
- IT 130367-21-4P 143324-20-3P 143324-21-4P 143324-22-5P
150982-32-4P 150982-34-6P 152586-70-4P 152586-73-7P
153575-65-6P
(prepn. and reaction of, **photog.** cyan coupler from)
- IT 143324-37-2P 143779-40-2P
(prepn. and use of, as **photog.** cyan coupler)

L66 ANSWER 23 OF 39 HCA COPYRIGHT 2005 ACS on STN

121:95791 **Silver halide color photographic**

material. Seto, Nobuo; Yoshioka, Yasuhiro; Suzuki, Makoto;
Morigaki, Masakazu (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai
Tokkyo Koho JP 05150426 A2 **19930618** Heisei, 88 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1991-335916 19911127.

GI



- AB A **silver halide** color **photog.** material
contains at least one pyrroloazole cyan color-forming coupler (I and
II; one of Za and Zb = CR₃ and the other = N; R₃ = H, substituent;
R₁, R₂ = electron withdrawing group having a Hammett const. σ_p
 ≥ 0.20 , provided that the sum of σ_p values of R₁ and R₂
is ≥ 0.65 ; X = H, group capable of leaving upon coupling with
the oxidized form of an arom primary amine color developing agent;
R₁ - R₃ or X may be a bivalent group and form a homopolymer or
copolymer with dimer, higher oligomers, or a polymer chain) and a Ni
compd. or complex in which Ni is bonded or coordinated to an O, S,
or N atom of an org. compd. A combination of the cyan coupler I or
II and a specific Ni complex (discoloration inhibitor) improves

coloration, color reprodn., and storage photostability of cyan images.

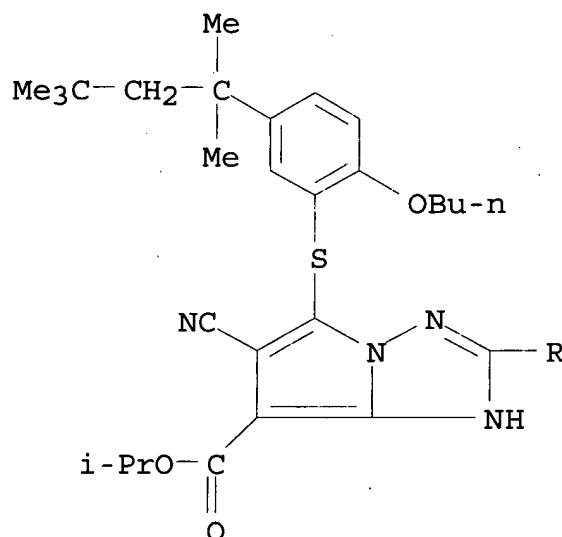
IT 150982-36-8

(cyan **photog.** coupler, color **photog.** paper
contg. nickel complex and)

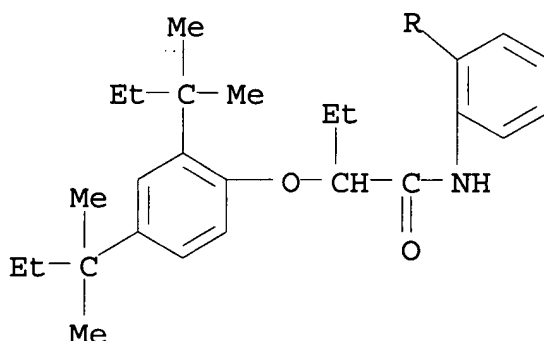
RN 150982-36-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)

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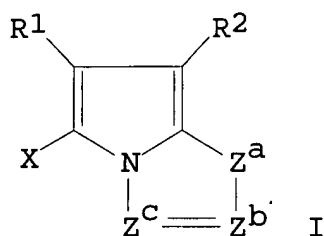
- IC ICM G03C007-38
ICS G03C007-392
- CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST color **photog** material; pyrroloazole cyan **photog**
coupler; nickel complex color **photog** material;
pyrrolotriazole cyan **photog** coupler
- IT **Photographic** paper
(color, contg. pyrroloazole cyan couplers and nickel complexes,
for improved color reprodn. and cyan color **image**
photostability)
- IT **Photographic** couplers
(cyan, pyrroloazole derivs., for improved color reprodn. and cyan
color **image** photostability in combination with nickel
complexes)
- IT 143779-39-9 150982-35-7 **150982-36-8** 151019-64-6
151019-65-7 151019-66-8 151019-67-9
(cyan **photog.** coupler, color **photog.** paper
contg. nickel complex and)
- IT 42950-65-2 93955-82-9 143779-40-2 155452-56-5 155452-57-6
155452-58-7 155452-59-8 155452-60-1 156761-85-2 156790-38-4
(discoloration inhibitor, color **photog.** paper contg.
pyrrolotriazole cyan coupler and)
- IT 143324-37-2P 143779-40-2P
(prepn. of, as cyan **photog.** coupler, color
photog. paper contg. nickel complex and)
- IT 143324-20-3P 143324-21-4P 143324-22-5P 150982-32-4P
150982-34-6P 152586-71-5P
(prepn. of, as intermediate for pyrrolotriazole cyan
photog. coupler)

L66 ANSWER 24 OF 39 HCA COPYRIGHT 2005 ACS on STN

121:46483 **Silver halide color photographic**

material. Nagaoka, Satoshi; Yamakawa, Kazuyoshi; Yamamoto, Mitsuru;
Suzuki, Makoto; Shimada, Yasuhiro; Nagaoka, Katsuro; Ikeda, Hideo;
Hara, Takefumi; Shuto, Sadanobu (Fuji Photo Film Co., Ltd., Japan).
Eur. Pat. Appl. EP 566115 A1 **19931020**, 181 pp. DESIGNATED
STATES: R: BE, DE, FR, GB, NL. (English). CODEN: EPXXDW.
APPLICATION: EP 1993-106136 19930415. PRIORITY: JP 1992-119862
19920415.

GI



AB There is disclosed a **silver halide** color **photog.** material having .gtoreq.1 red-sensitive **silver halide** emulsion layer, .gtoreq.1 green-sensitive **silver halide** emulsion layer, and .gtoreq.1 blue-sensitive **silver halide** emulsion layer, wherein .gtoreq.1 of the emulsion layers contains .gtoreq.1 cyan dye-forming coupler represented by the formula I wherein Za represents NH or CHR³, Zb and Zc represent CR⁴ or N, R1-3 represent an electron-attracting group wherein the Hammett substituent const. .sigma.p value is 0.20 or more, provided that the sum of the .sigma.p value of R1 and the .sigma.p value of R2 is 0.65 or more, R4 represents a hydrogen atom or a substituent, if there are two groups R4 in the formula, they may be the same or different, and X represents a hydrogen atom or a group capable of being released upon a coupling reaction with the oxidized product of an arom. primary amine color-developing agent, provided that R1-4 or X may be a divalent group to form a homopolymer or a copolymer by bonding with a dimer or higher polymer or polymer chain and .gtoreq.1 sensitizing dye contg. a sulfonamido group.

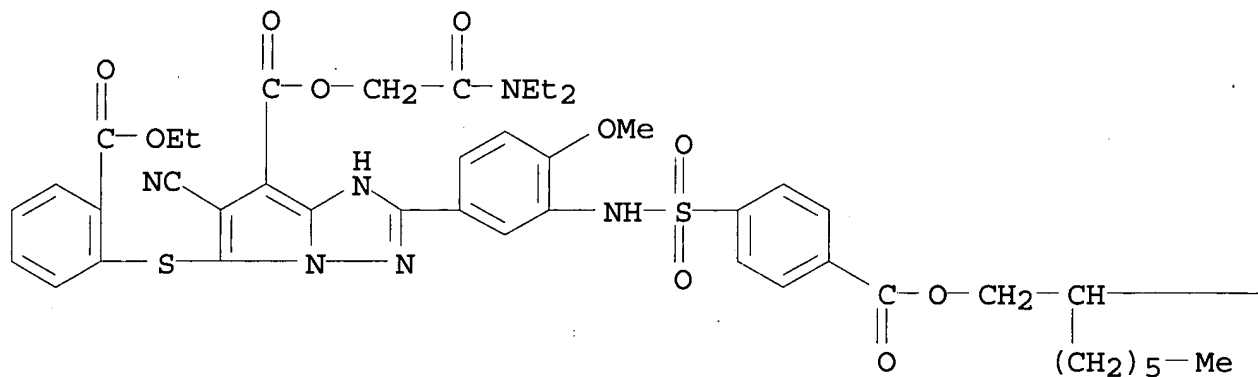
IT 153004-06-9

(cyan **photog.** coupler)

RN 153004-06-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-5-[[2-(ethoxycarbonyl)phenyl]thio]-2-[3-[[4-[[2-hexyldecyl)oxy]carbonyl]phenyl]sulfonyl]amino]-4-methoxyphenyl]-, 2-(diethylamino)-2-oxoethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— (CH₂)₇—Me

- IC ICM G03C007-38
ICS G03C007-30; G03C007-305; G03C001-14
- CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST **silver halide color photog material;**
pyrrolopyrazole cyan photog coupler
- IT **Photographic couplers**
(cyan, pyrrolopyrazoles as)
- IT 152828-30-3 152828-33-6 **153004-06-9** 154021-49-5
154021-50-8 155926-12-8 155926-13-9 155926-15-1 155926-16-2
155926-17-3 155926-18-4 155926-19-5 155926-20-8 155926-21-9
155926-22-0 155926-23-1 155965-03-0
(cyan **photog.** coupler)
- IT 146822-29-9P 151019-75-9P 151019-76-0P
(prepn. and reaction of, in prep. cyan **photog.**
coupler)
- IT 151019-65-7P
(prepn. and use of, as cyan **photog.** coupler)

IT 2425-77-6 2905-62-6 154021-47-3
(reaction of, in prep. cyan **photog.** coupler)
IT 148364-34-5 148364-35-6 148364-36-7 148364-38-9 149702-96-5
149703-02-6 149703-03-7 149703-04-8
(**silver halide color photog.**
materials contg. pyrrolopyrazole cyan **photog** couplers
and)

L66 ANSWER 25 OF 39 HCA COPYRIGHT 2005 ACS on STN

121:46475 **Silver halide color photographic**
materials with improved cyan color-forming properties. Naruse,
Hideaki; Suzuki, Makoto (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai
Tokkyo Koho JP 05204110 A2 19930813 Heisei, 89 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1992-298264 19921012.
PRIORITY: JP 1991-335841 19911127.

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

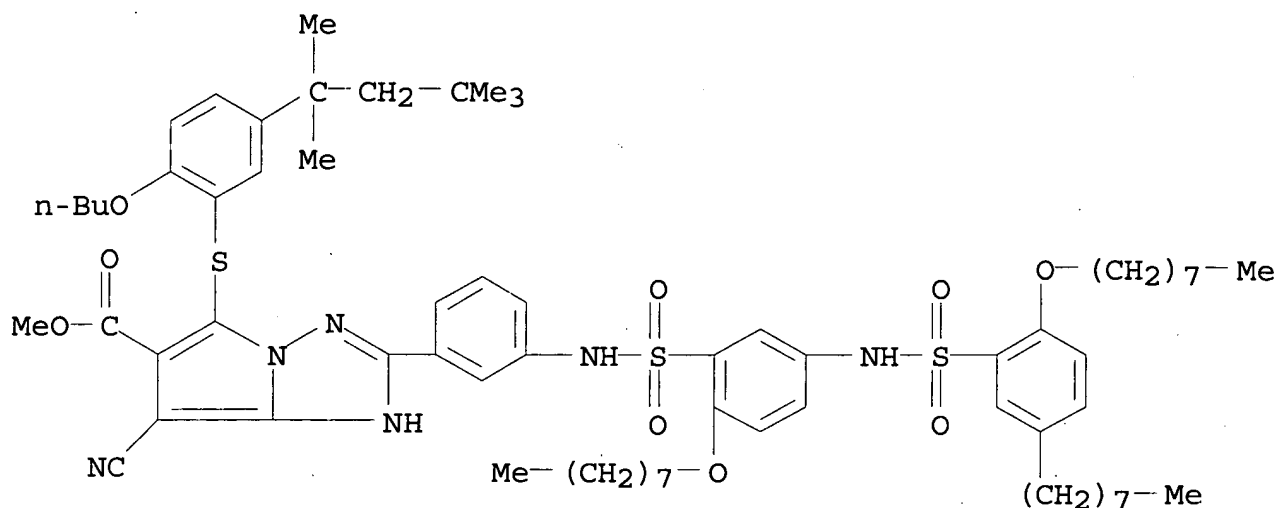
AB The **Ag halide color photog.** material,
having .gtoreq.1 **Ag halide** emulsion layer on a
support, comprises .gtoreq.1 pyrrolotriazole cyan coupler
represented by I or II [Za, Zb = -C(R3):, -N:; Za or Zb is -N:; R1,2
= electron-acceptor with Hammett substitution const.
.sigma.p.gtoreq.20; .sigma.p of (R1 + R2) is .gtoreq.0.65; R3 = H,
substituent; X = H, releasing moiety upon coupling reaction with
oxidn. product of arom. primary amine color developing agent; R1-3
and X can be divalent moieties to form dimer or higher, or
copolymer]; and. .gtoreq.1 Cyan coupler represented by III, IV [R11
= alkyl, aryl, heterocyclyl; R12 = C.gtoreq.2 alkyl; R13 = H, halo,
alkyl, aryl, alkoxy, aryloxy, carbonamido, ureido; R14 = alky, aryl,
heterocyclyl, alkoxy, aryloxy, amino; X' = H, releasing moiety upon
coupling reaction with oxidn. product of arom. primary amine color
developing agent; n = 0, 1; R12 and R13 of III and R13 and R14 of IV
may form rings], V, and VI [Q = naphthol nucleus coupler residue
bonded at 2nd position; R1 = H, alkyl, alkenyl, alkynyl, cycloalkyl,
aralkyl, alkoxy, amino, aryl; R2 = moiety substitutable on benzene
ring; R3,4 = H, alkyl, aryl, halo, alkoxy, aryloxy; R5,6 = H, alkyl,
aryl; t = 0-4; m = 0-4].

IT 143324-39-4 150982-36-8 150982-37-9
(cyan coupler, **silver halide color**
photog. material contg.)

RN 143324-39-4 HCA

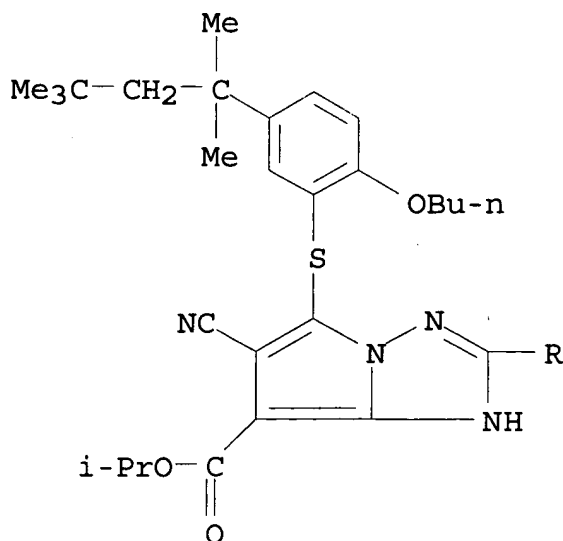
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid,
5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-7-cyano-2-[3-

[[[5-[[[5-octyl-2-(octyloxy)phenyl]sulfonyl]amino]-2-(octyloxy)phenyl]sulfonyl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)

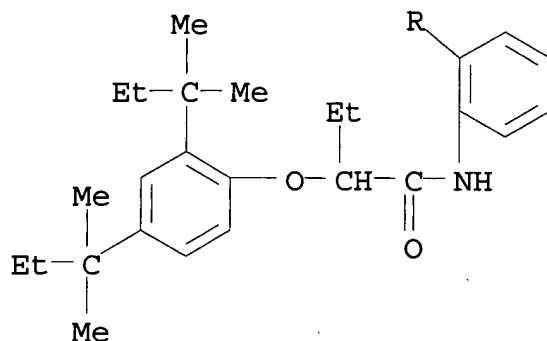


RN 150982-36-8 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
 (CA INDEX NAME)

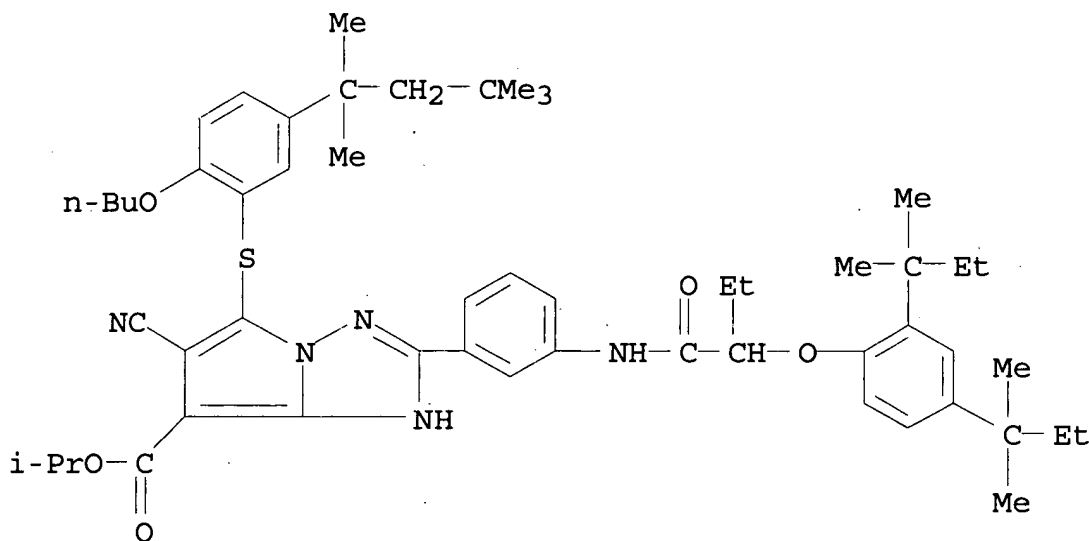
PAGE 1-A



PAGE 2-A



RN 150982-37-9 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
 (CA INDEX NAME)



IC ICM G03C007-38
 ICS G03C007-34
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST pyrrolo[1,2-b][1,2,4]triazole cyan photog coupler; silver
 halide color photog material

IT **Photographic couplers**

(cyan, pyrrolotriazole-type, combined with phenol types or naphthol types)

IT 2923-93-5 92589-17-8 96758-05-3 99661-33-3 101664-25-9
 117827-06-2 143324-23-6 **143324-39-4** 143324-43-0
 143767-12-8 143779-40-2 143779-41-3 149125-97-3 150982-35-7
150982-36-8 150982-37-9 151019-66-8
 152793-67-4 152793-70-9 152793-75-4 156122-99-5 156123-00-1
 156123-01-2 156123-02-3 156123-03-4 156123-04-5 156123-05-6
 156123-06-7 156123-07-8 156123-09-0

(cyan coupler, **silver halide** color photog. material contg.)

L66 ANSWER 26 OF 39 HCA COPYRIGHT 2005 ACS on STN

121:22348 **Silver halide** color **photographic**

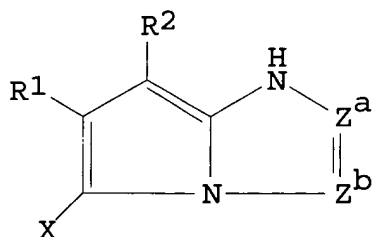
material. Morigaki, Masakazu; Yoshioka, Yasuhiro; Seto, Nobuo (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 544317 A1

19930602, 92 pp. DESIGNATED STATES: R: DE, FR, GB, NL.

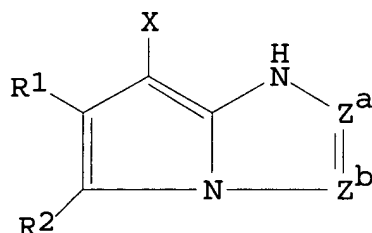
(English). CODEN: EPXXDW. APPLICATION: EP 1992-120282 19921127.

PRIORITY: JP 1991-335811 19911127.

GI



I



II

AB **A Ag halide** color **photog.** material

having excellent color reproducibility and improved preservability after development comprises a support having thereon one or more

Ag halide emulsion layers, wherein .gtoreq.1 of the **Ag halide** emulsion layers contains .gtoreq.1cyan coupler selected from the group of compds. represented by the formula I and II (Z^a, Z^b = CR³ or N, provided that one of Z^a and Z^b is N and the other is CR³; R¹, R² = an electrophilic group whose Hammett's substituent const. .sigma._p is .gtoreq.0.20 provided that the sum of .sigma._p of R¹ and R² is .gtoreq.0.65; R³ = H or a substituent group; X = H or a group capable of splitting off upon reaction with an oxidized arom. primary amine color developing agent) which may be a part of a polymer or copolymer. The**photog.** material also contains .gtoreq.1 lipophilic compd. selected from the group of compds. represented by the formulas

IT 146822-40-4

RN 146822-40-4 HCA

CCCCOc1ccc(cc1)S2C(=O)C(C#N)N=C2Nc3ccc(cc3)NS(=O)(=O)c4ccc(cc4)NS(=O)(=O)c5ccc(cc5)OC(C)(C)CC

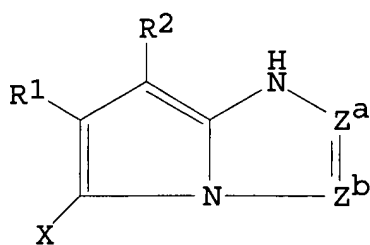
CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST silver halide color photog material;

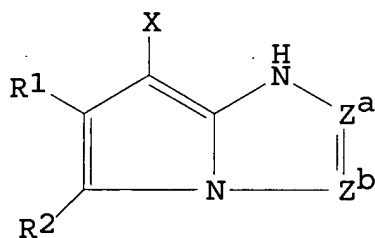
- pyrrolotriazole cyan coupler color **photog**
- IT **Photographic** emulsions
(color, contg. pyrrolotriazole cyan dye formers and lipophilic compds.)
- IT **Photographic** couplers
(cyan, pyrrolotriazoles as, for producing dye **images** of excellent color reproducibility)
- IT 143779-39-9 **146822-40-4** 150982-35-7 151019-65-7
(**photog.** cyan coupler, for producing dye **images** of improved color reproducibility)
- IT 130367-21-4P 143324-20-3P 143324-21-4P 143324-22-5P
150982-32-4P 150982-33-5P 150982-34-6P 152586-70-4P
152586-72-6P 152586-73-7P
(prepn. and reaction of, in prepg. **photog.** cyan coupler)
- IT 143324-37-2P 143779-40-2P
(prepn. and use of, as **photog.** cyan coupler for producing dye **images** of improved color reproducibility)
- IT 70-23-5 99067-72-8 109871-03-6 125666-25-3,
1H-Pyrrole-3,4-dicarbonitrile 140859-54-7 152586-69-1
(reaction of, in prepg. **photog.** cyan coupler)
- IT 629-93-6 115895-05-1 115895-09-5 115895-30-2 115895-45-9
120018-34-0 129840-65-9 136094-74-1 141915-64-2 154306-13-5
154306-14-6
(**silver halide** color **photog.**
materials contg. pyrrolotriazole cyan couplers and, for forming dye **images** of improved color reproducibility)

L66 ANSWER 27 OF 39 HCA COPYRIGHT 2005 ACS on STN
120:284795 Method for processing color **photographic** material.
Hayashi, Hiroshi (Fuji Photo Film Co., Ltd., Japan). Eur. Pat.
Appl. EP 557851 A1 **19930901**, 106 pp. DESIGNATED STATES:
R: DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP
1993-102355 19930215. PRIORITY: JP 1992-59124 19920214.

GI



I



II

AB A method for processing an imagewise exposed color **photog.**

material comprising a support having on at least one surface thereof at least one layer contg. a light-sensitive **silver halide** emulsion and a non-diffusing oil-sol. coupler capable of forming a dye by coupling with the oxidn. product of an arom. primary amine developing agent, wherein the color **photog.** material contains at least one member selected from the group consisting of cyan couplers represented by the general formulas I. and II [Za and Zb each represents -C(R3)= or -N= provided that one of Za and Zb is -N= and the other is -C(R3)=; R1 and R2 each represents an electron-attracting group having a Hammett's substituent const. σ_p value of at least 0.20 and the sum of σ_p values for R1 and R2 is at least 0.65; R3 represents a H atom or a substituent; X represents a H atom or a group which is eliminated on coupling with the oxidn. product of an arom. primary amine color developing agent; and R1, R2, R3, or X may be a bivalent group and the compd. may be in the form of a dimer or a higher polymer through the bivalent group or may form a homopolymer or a copolymer wherein the compd. is bonded to a high-mol. wt. chain] as the oil-sol. coupler and wherein the processing comprises color developing the **photog.** material and then processing the **photog.** material in a bath having a fixing ability and contg. at least one compd., as a fixing agent, selected from N-contg. compds.

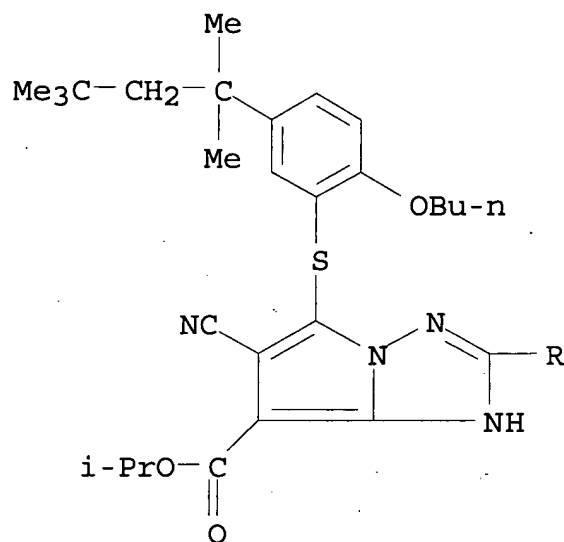
IT 150982-36-8

(cyan **photog.** coupler)

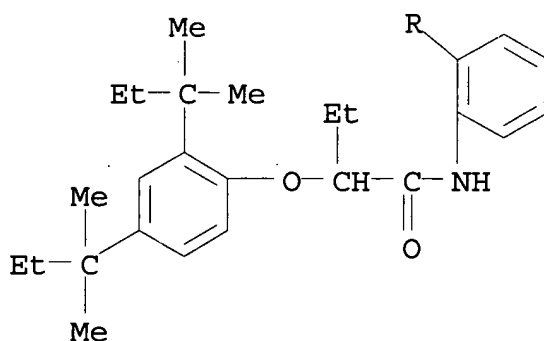
RN 150982-36-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)

PAGE 1-A



PAGE 2-A



- IC ICM G03C007-38
ICS G03C007-42
- CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST color **silver halide photog** material;
processing color **photog** material fixing; cyan
photog coupler pyrrolotriazole deriv
- IT **Photographic** emulsions
(color, contg. pyrrolotriazole cyan dye formers)
- IT **Photographic** couplers
(cyan, pyrrolotriazoles as, for **photog.** materials with

improved processability)
IT 143779-39-9 146822-53-9 150982-35-7 150982-36-8
151019-66-8 154217-48-8
(cyan **photog.** coupler)
IT 61607-68-9
(**photog.** fixing solns. contg.)
IT 130367-21-4P 143324-20-3P 143324-21-4P 143324-22-5P
150982-32-4P 150982-34-6P 152586-70-4P 152586-71-5P
152586-72-6P 152586-73-7P
(prepn. and reaction of, in prepg. cyan **photog.**
coupler)
IT 154217-50-2P 154217-51-3P
(prepn. and reaction of, in prepg. yellow **photog.**
coupler)
IT 143324-37-2P 143779-40-2P
(prepn. and use of, as cyan **photog.** coupler)
IT 153504-55-3P 153504-59-7P
(prepn. and use of, as yellow **photog.** coupler)
IT 70-23-5 99067-72-8 109871-03-6 125666-25-3,
1H-Pyrrole-3,4-dicarbonitrile 140859-54-7 152586-69-1
(reaction of, in prepg. cyan **photog.** coupler)
IT 496-15-1 154217-49-9 154217-52-4
(reaction of, in prepg. yellow **photog.** coupler)
IT 147495-63-4
(yellow **photog.** coupler)

L66 ANSWER 28 OF 39 HCA COPYRIGHT 2005 ACS on STN

120:257293 **Silver halide color photographic**

material. Naruse, Hideaki; Suzuki, Makoto; Sato, Takehiko (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 544319 A1 19930602, 155 pp. DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1992-120291 19921127. PRIORITY: JP 1991-335917 19911127.

GI For diagram(s), see printed CA Issue.

AB A **Ag halide color photog.** material

which provides good color developability and excellent color reproducibility in every hue comprises .gtoreq.1 cyan dye-forming emulsion layer, a magenta dye-forming emulsion layer, and a yellow dye-forming emulsion layer, wherein the cyan dye-forming emulsion layer contains .gtoreq.1 cyan coupler selected from a group of compds. represented by the formulas I and II (Za, Zb = CR₃ or N provided that 1 of Za and Zb is N, the other is CR₃; R₁, R₂ = an electron-attracting group having a Hammett's substituent const. .sigma.p of .gtoreq.20.65; R₃ = H or a substituent group; X₁ = H or a group capable of splitting off upon reaction with an oxidized arom. primary amine color developing agent) which may be a part of a polymer or copolymer. The yellow dye-forming layer contains .gtoreq.1 yellow coupler selected from a group of compds.

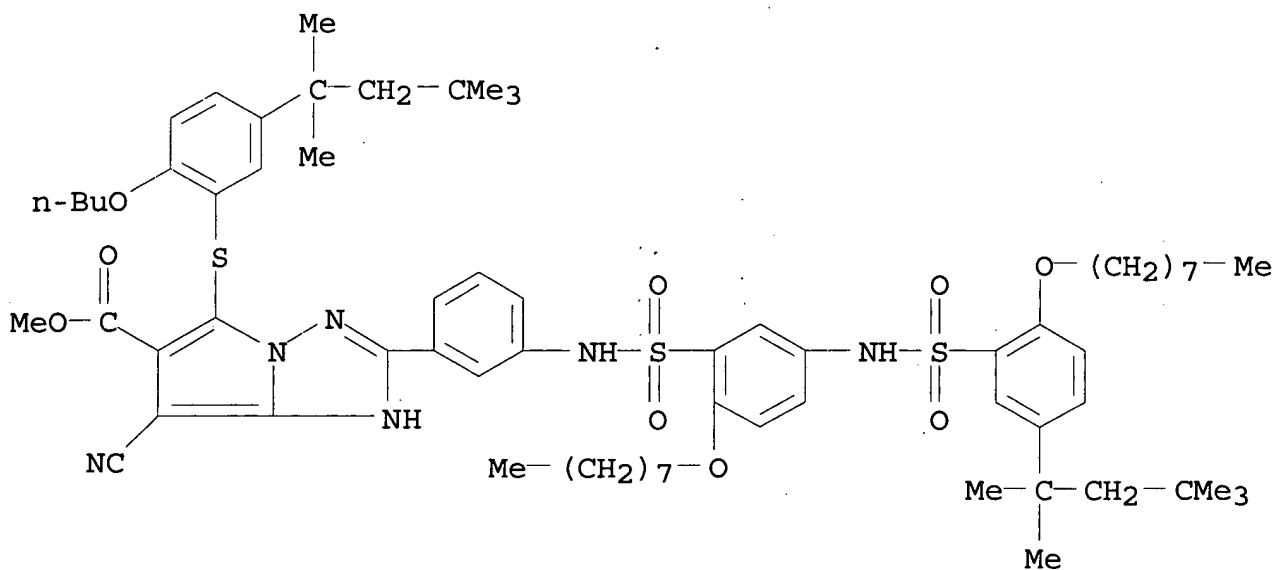
represented by the formulas III and IV (R_4 = a monovalent group excluding H; Q = nonmetallic atoms necessary to form a 3-5-membered hydrocarbon ring or a 3-5-membered heterocyclic ring contg. ≥ 1 hetero atom selected from N, S, O, and P; R_5 = H, halogen, alkoxy, aryloxy, alkyl, or amino; X_2 = H or a group capable of splitting off upon reaction with an oxidized arom. primary amine color developing agent; r = an integer of 0-4; R_6, R_8-10 = a substituent group; R_1 = halogen or alkoxy; X_3 = V or $NR_{11}R_{12}$; R_{11} = alkyl; R_{12} = alkyl or aryl; Z_c = a group capable of splitting off upon reaction with an oxidized arom. primary amine color developing agent; Y = alkoxy carbonyl, sulfamoyl etc.; p = 0-2; m = 0-3; n = 0-4).

IT 146822-40-4 150982-36-8

(photog. cyan coupler)

RN 146822-40-4 HCA

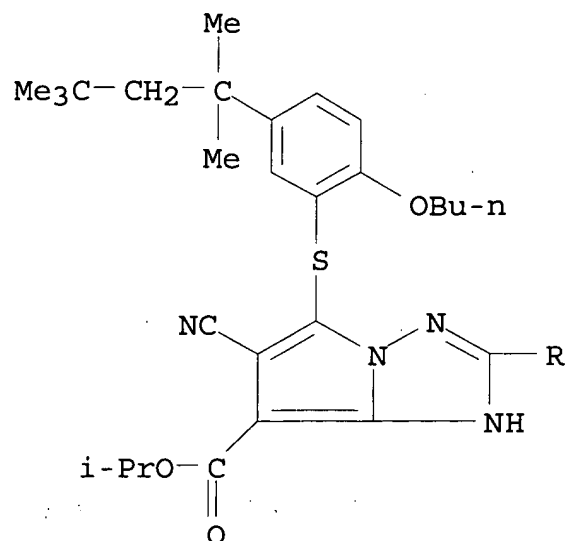
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid, 5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-7-cyano-2-[3-[[[2-(octyloxy)-5-[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]sulfonyl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



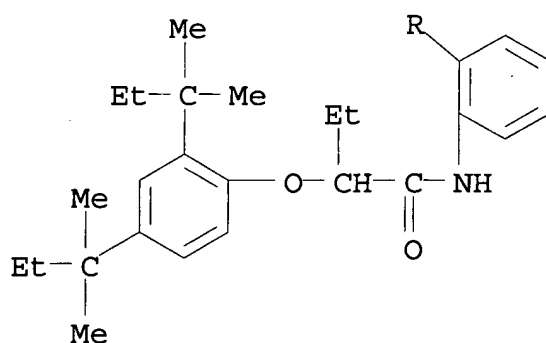
RN 150982-36-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



- IC ICM G03C007-32
ICS G03C007-36; G03C007-38
- CC **74-2** (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
- ST **silver halide** color **photog** material;
pyrrolotriazole cyan coupler color **photog**; acetanilide
yellow coupler color **photog**
- IT **Photographic** emulsions
(with improved color developability and reproducibility)
- IT **Photographic** couplers
(cyan, pyrrolotriazoles as, for forming forming dye

images with improved color developability and reproducibility)

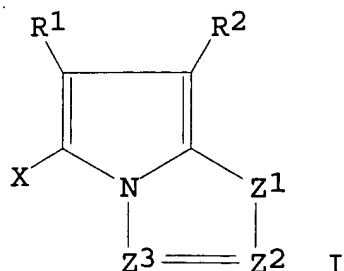
- IT **Photographic** couplers
(yellow, acetanilides as, for forming dye **images** with improved color developability and reproducibility)
- IT **146822-40-4 150982-36-8 150982-38-0**
151651-64-8
(**photog.** cyan coupler)
- IT 147272-03-5 147495-61-2 147913-68-6 148027-88-7 154444-46-9
154444-47-0
(**photog.** yellow coupler)
- IT 130367-21-4P 143324-20-3P 143324-21-4P 143324-22-5P
150982-32-4P 150982-34-6P 152586-70-4P 152586-71-5P
(prepn. and reaction of, in prepg. **photog.** cyan coupler)
- IT 143301-50-2P 143301-51-3P
(prepn. and reaction of, in prepg. **photog.** yellow coupler)
- IT 143324-37-2P 143779-40-2P
(prepn. and use of, as **photog.** cyan coupler)
- IT 146133-03-1P
(prepn. and use of, as **photog.** yellow coupler)
- IT 70-23-5 109871-03-6 140859-54-7 152586-69-1
(reaction of, in prepg. **photog.** cyan coupler)
- IT 496-15-1 695-53-4 146921-97-3
(reaction of, in prepg. **photog.** yellow coupler)

L66 ANSWER 29 OF 39 HCA COPYRIGHT 2005 ACS on STN

120:231867 **Silver halide color photographic**

material. Mihayashi, Keiji; Shimada, Yasuhiro (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 574948 A1 **19931222**, 122 pp. DESIGNATED STATES: R: BE, DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1993-109804 19930618. PRIORITY: JP 1992-184717 19920619.

GI



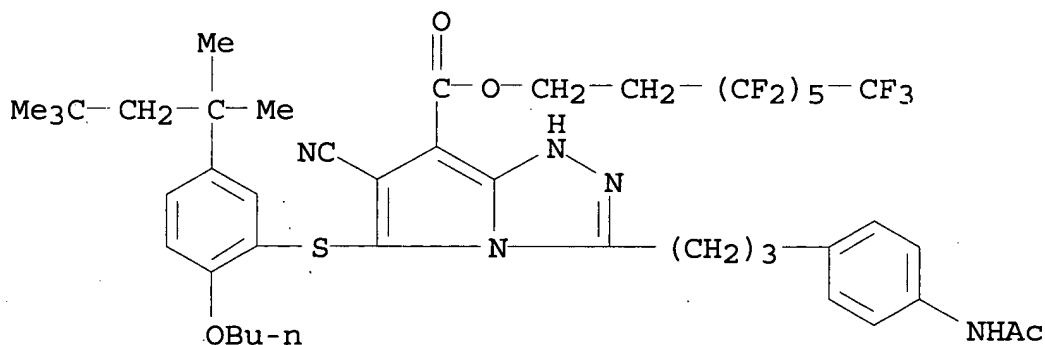
AB Disclosed is a **silver halide** color **photog.** material wherein a photosensitive **silver halide** emulsion layer contains a **silver halide** emulsion which is comprised of tabular grains. The grains have an aspect ratio at least 2 account for at least 50% of the total no. of **silver halide** grains. The emulsion layer or the layer adjacent thereto also contains a cyan coupler represented by formula I ($Z1 = NH$ or $CHR3$; $Z2, Z3 = CR4$ or N ; $R1-3 =$ an electron-withdrawing group of which the Hammett substituent group const. σ_p value is ≥ 0.2 ; $R4 = H$ or a substituent group; $X = H$ or a group which can be eliminated upon coupling reaction with an oxidized primary arom. amine color developing agent).

IT **154021-61-1**

(cyan **photog.** coupler)

RN 154021-61-1 HCA

CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-7-carboxylic acid, 3-[3-[4-(acetylamino)phenyl]propyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38

ICS G03C007-30

CC **74-2** (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **silver halide** color **photog** material;
pyrrolopyrazole cyan **photog** coupler

IT **Photographic** emulsions

(color, contg. tabular **silver halide** grains
and pyrrolopyrazole cyan dye formers)

IT **Photographic** couplers

(cyan, pyrrolopyrazoles as)

IT	152828-30-3	154021-48-4	154021-49-5	154021-50-8	154021-51-9
	154021-52-0	154021-53-1	154021-54-2	154021-55-3	154021-56-4

154021-57-5 154021-58-6 154021-59-7 154021-60-0
154021-61-1 154021-62-2 154021-63-3 154021-64-4
 154021-65-5 154021-66-6

(cyan **photog.** coupler)

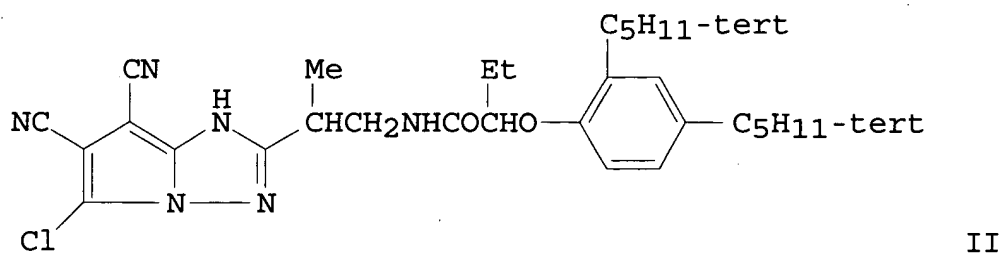
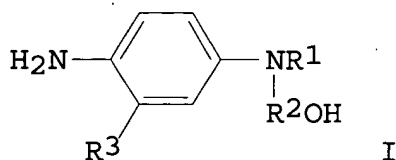
IT 146822-29-9P 151019-75-9P 151019-76-0P
 (prepn. and reaction of, in prepg. cyan **photog.**
 coupler)

IT 151019-65-7P
 (prepn. and use of, as cyan **photog.** coupler)

IT 2425-77-6 2905-62-6 154021-47-3
 (reaction of, in prepg. cyan **photog.** coupler)

L66 ANSWER 30 OF 39 HCA COPYRIGHT 2005 ACS on STN
 120:231845 Method for processing **silver halide** color
photographic material. Nakamura, Koichi; Taniguchi, Masato
 (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 05224376
 A2 19930903 Heisei, 67 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1992-59123 19920214.

GI



AB In the title method, the title material contains one or more cyan dye-forming couplers (Markush structures given). The title material is treated with phenylenediamine I [R1 = alkyl, hydroxyalkyl; R2 = alkylene, etc.; R3 = H, alkyl, alkoxy]. II is an example of said couplers. The title method gives high quality **images**.

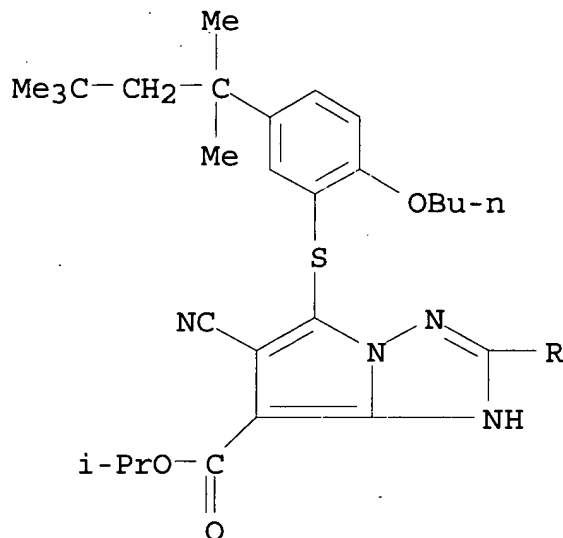
IT **150982-36-8**
 (**photog.** coupler)

RN 150982-36-8 HCA

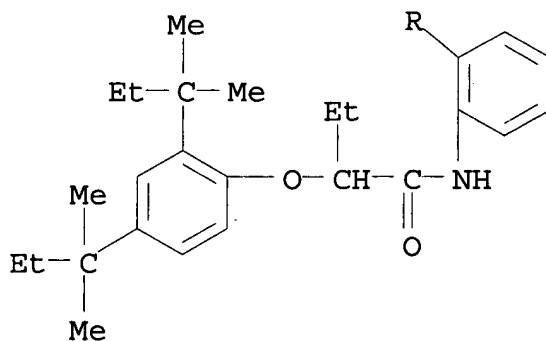
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-

tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)

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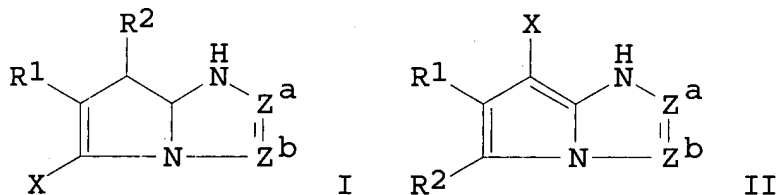


IC ICM G03C007-413
ICS G03C007-38
CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
ST pyrroloazole **photog** cyan coupler; phenylenediamine
photog developing agent; high quality **image**
photog processing

- IT **Photographic** processing
(phenylenediamine deriv. in improved method for)
- IT **Photographic** couplers
(cyan, pyrroloazoles as)
- IT 150982-35-7 **150982-36-8** 151019-64-6 151019-66-8
(**photog.** coupler)
- IT 107885-42-7 131254-40-5 142644-91-5 144337-76-8 146883-82-1
154048-67-6
(**photog.** developing agent)
- IT 143324-37-2P 143779-40-2P
(prepn. of, as **photog.** coupler)

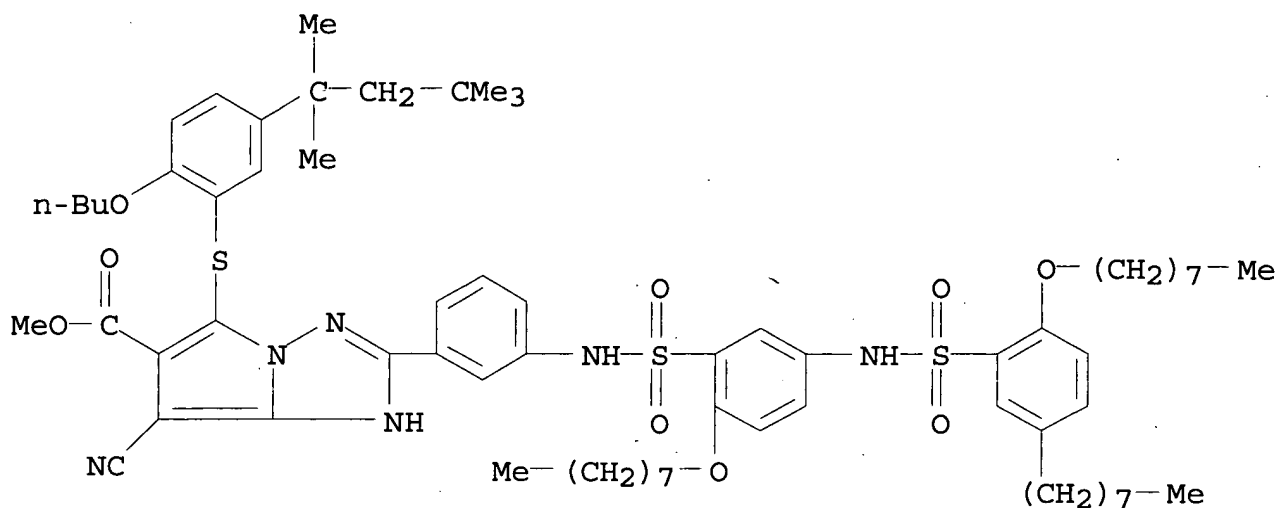
L66 ANSWER 31 OF 39 HCA COPYRIGHT 2005 ACS on STN
120:204437 **Silver halide color photographic**
material. Suzuki, Makoto; Naruse, Hideaki; Sato, Takehiko (Fuji
Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 544323 A1
19930602, 73 pp. DESIGNATED STATES: R: DE, FR, GB, NL.
(English). CODEN: EPXXDW. APPLICATION: EP 1992-120296 19921127.
PRIORITY: JP 1991-311213 19911127.

GI



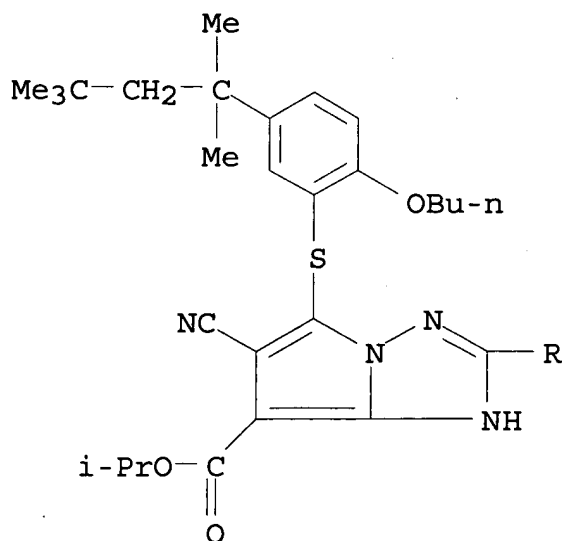
- AB **A Ag halide color photog. material**
capable of providing a dye **image** having improved spectral
absorption characteristics and color fastness comprises .gtoreq.1
Ag halide emulsion layer contg. .gtoreq.1 cyan
coupler represented by the formula I or II (Za, Zb = N or CR₃
provided that 1 of Za and Zb is N and the other is CR₃; R₁, R₂ = an
electron-attracting group having a Hammett's substituent const.
.sigma.p .gtoreq.0.2 with the sum of the .sigma.p values of R₁ and
R₂ being .gtoreq.0.65; R₃ = H or a substituent group; X = H or a
group capable of splitting off upon reaction with the oxidn. product
of an arom. primary amine color developing agent) and .gtoreq.1
sparingly water-sol. homopolymer and/or copolymer.
- IT **143324-39-4 150982-36-8**
(**photog.** cyan coupler)
- RN 143324-39-4 HCA
- CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid,
5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-7-cyano-2-[3-

[[[5-[[[5-octyl-2-(octyloxy)phenyl]sulfonyl]amino]-2-(octyloxy)phenyl]sulfonyl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)

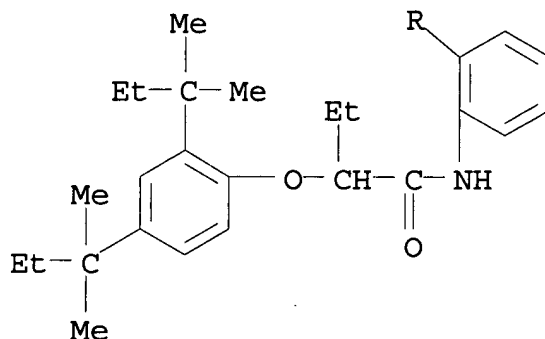


RN 150982-36-8 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
 (CA INDEX NAME)

PAGE 1-A



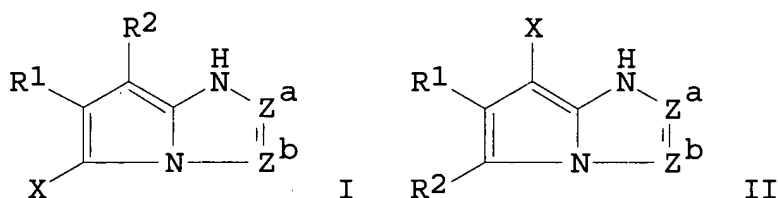
PAGE 2-A



- IC ICM G03C007-30
 CC **74-2** (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST **silver halide** color **photog** material;
 pyrazoloazole cyan **photog** coupler
 IT **Photographic** emulsions
 (color, contg. pyrazoloazole cyan color formers and sparingly
 water-sol. polymers)
 IT **143324-39-4** 150982-35-7 **150982-36-8**
 151019-66-8 151651-64-8 152793-67-4 153273-54-2 153273-55-3
 (**photog.** cyan coupler)
 IT 143324-20-3P 143324-22-5P 150982-32-4P 152586-71-5P
 152586-72-6P 152586-73-7P 153273-56-4P 153273-57-5P
 (prepn. and reaction of, in prepg. **photog.** cyan
 coupler)
 IT 143779-40-2P 153273-52-0P
 (prepn. and use of, as **photog.** cyan coupler)
 IT 105-36-2 99067-72-8 109871-03-6 125666-25-3,
 1H-Pyrrole-3,4-dicarbonitrile 130367-21-4 140859-54-7
 152586-69-1 152586-70-4
 (reaction of, in prepg. **photog.** cyan coupler)
 IT 9011-14-7, Poly(methylmethacrylate) 25267-41-8,
 Poly(N-tert-butylacrylamide) 28549-51-1, tert-Butylmethacrylate-
 methylmethacrylate copolymer 32760-09-1, Poly(N-tert-
 butylmethacrylamide) 65993-04-6, Poly(N-butylacrylamide)
 (**silver halide** color **photog.**
 materials contg. pyrazoloazole cyan couplers and)

Yasuhiro (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 05158202 A2 19930625 Heisei, 68 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1991-349903 19911210.

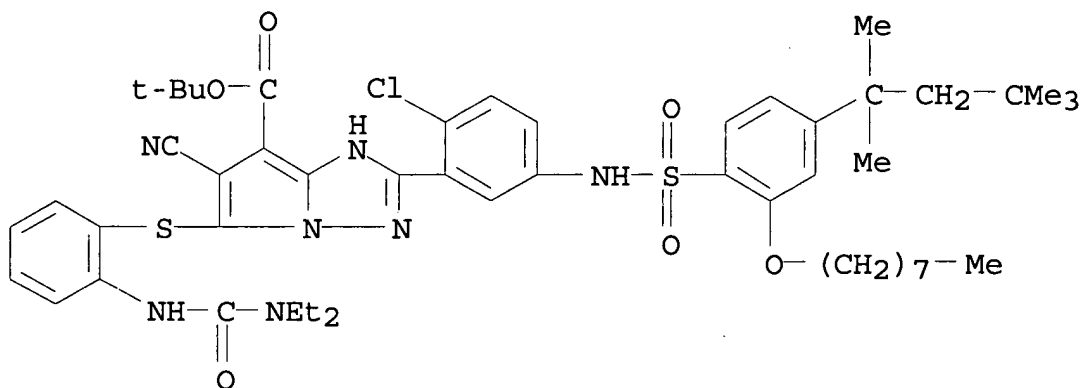
GI



AB An exposed **silver halide color photog.** material contg. at least one pyrroloazole cyan color-forming coupler (I and II; one of Za, Zb = CR₃ and the other = N; R₃ = H, substituent; R1, R2 = electron withdrawing group having a Hammett const. $\sigma_p \geq 0.20$, provided that the sum of σ_p values of R1 and R2 is ≥ 0.65 ; X = H, group capable of leaving upon coupling with the oxidized form of an arom primary amine color developing agent; R1 - R3 or X may be a bivalent group and form a homopolymer or copolymer with dimer, higher oligomers, or a polymer chain) is processed by color development using a color developer contg. Cl⁻ at ≥ 0.08 mol/L followed by desilverization. The said color **photog.** material contains a high AgCl-content emulsion with Cl⁻ content ≥ 90 mol%. In rapid processing, this **photog.** processing shows little fluctuation of **photog.** properties (e.g sensitivity), maintains stable **photog.** properties at high Cl⁻ concn. in a developer, and provides sufficient coloration (high max. d.) and little fog in contamination of a color developer with a bleach-fixing soln.

IT 153575-64-5
(cyan **photog.** coupler, color **photog.** material contg., for rapid processing)

RN 153575-64-5 HCA
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 2-[2-chloro-5-[[[2-(octyloxy)-4-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-6-cyano-5-[[2-[[[(diethylamino)carbonyl]amino]phenyl]thio]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



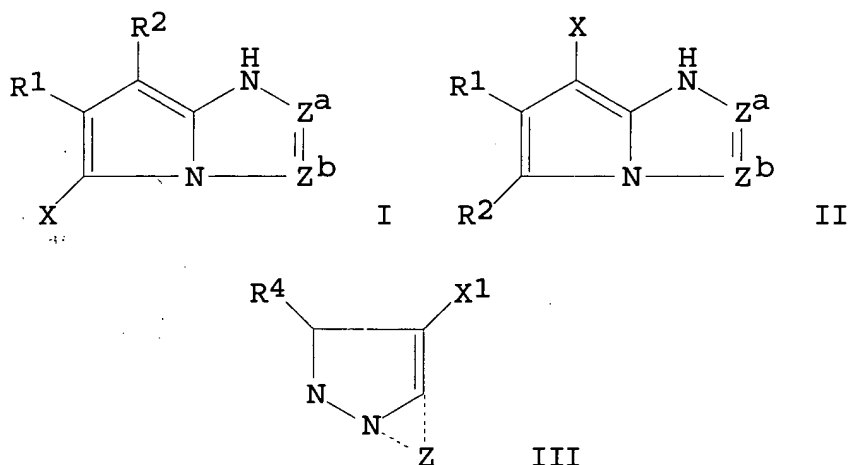
- IC ICM G03C007-407
ICS G03C001-015; G03C001-035; G03C001-08; G03C007-38
- CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST color **photog.** rapid processing; pyrroloazole cyan coupler
color **photog.** material; chloride ion concn color
photog. developer
- IT **Photographic** paper
(color, contg. contg. pyrroloazole cyan coupler and high
silver halide-content emulsion, for stable
photog. property, reduced fog, and high coloration in
rapid processing)
- IT **Photographic** developers
(color, contg. high chloride ion concn., in rapid processing)
- IT **Photographic** processing
(color, rapid, of color **photog.** material contg.
pyrroloazole cyan coupler and high **silver
halide**-content emulsion, for stable **photog.**
property, reduced fog, and high coloration)
- IT 150982-35-7 153575-64-5
(cyan **photog.** coupler, color **photog.** material
contg., for rapid processing)
- IT 143324-37-2P 153575-67-8P
(prepn. of, as cyan **photog.** coupler, color
photog. material contg., for rapid processing)
- IT 143324-20-3P 143324-21-4P 143324-22-5P 150982-32-4P
150982-34-6P 153575-65-6P
(prepn. of, as intermediate for pyrroloazole cyan **photog.**
. coupler)

L66 ANSWER 33 OF 39 HCA COPYRIGHT 2005 ACS on STN

120:148778 **Silver halide** color **photographic**
material. Naruse, Hideaki; Suzuki, Makoto (Fuji Photo Film Co.,
Ltd., Japan). Eur. Pat. Appl. EP 544322 A1 19930602, 88

pp. DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1992-120295 19921127. PRIORITY: JP 1991-335905 19911127.

GI



AB A Ag halide color photog. material capable of providing a dye image having excellent color reproducibility, less color fading, and good balance of cyan, magenta, and yellow colors comprises a support and provided thereon cyan coupler-, magenta coupler-, and yellow coupler-contg. Ag halide emulsion layers, wherein the cyan coupler-contg. Ag halide emulsion layer contains .gtoreq.1 cyan coupler selected from the group of compds. represented by the formulas I and II (Za, Zb = CR₃ or N, provided that one of Za and Zb is N and the other is CR₃; R₁, R₂ = an electron-attracting group having a Hammett's substituent const. .sigma.p of .gtoreq.0.2 and the sum of the .sigma.p values of R₁ and R₂ is .gtoreq.0.65; R₃ = H or a substituent group; X = H or a group capable of splitting off upon reaction with an oxidized arom. primary amine color developing agent) which may be a part of a polymer or copolymer and the magenta coupler-contg. Ag halide emulsion layer contains a magenta coupler represented by the formula III (R₄ = H or a substituent group; Z = a group of nonmetallic atoms necessary to form a 5-membered azole ring contg. 2-3 N atoms; X₁ = H or a group capable of splitting off upon reaction with an oxidized arom. primary amine color developing agent).

IT 150982-36-8 150982-37-9

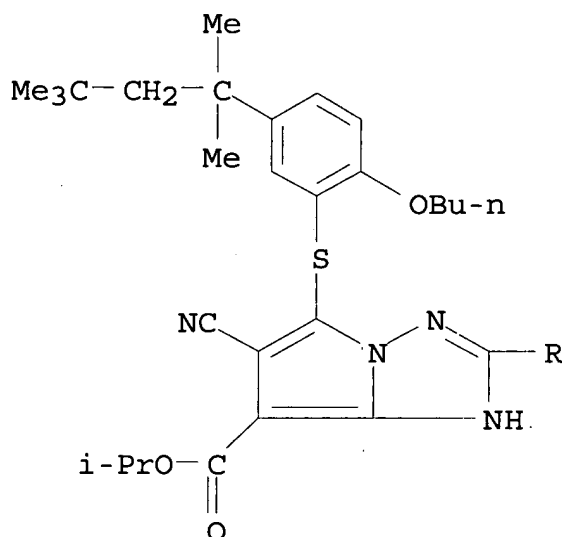
(**photog.** cyan coupler, for forming dye **images**

having excellent color reproducibility and reduced color fading)

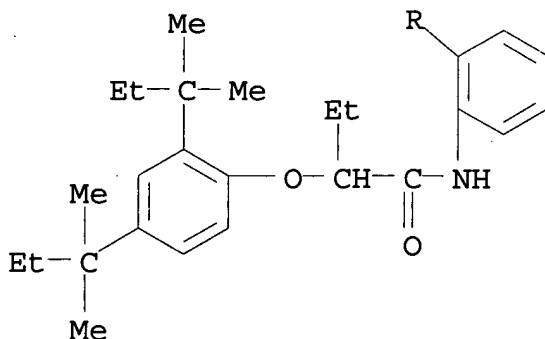
RN 150982-36-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)

PAGE 1-A



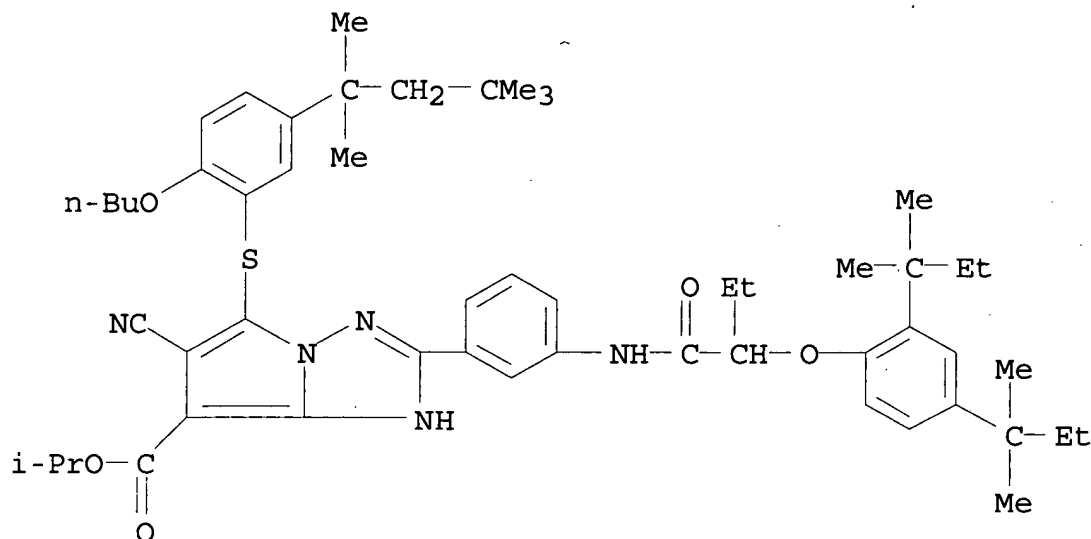
PAGE 2-A



RN 150982-37-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,

2-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)



- IC ICM G03C007-32
CC **74-2** (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST **silver halide color photog** material;
pyrrolotriazole cyan coupler color **photog**; pyrazoloazole magenta coupler color **photog**
IT **Photographic** emulsions
(for forming dye **images** having excellent color reproducibility and reduced color fading)
IT **Photographic** couplers
(cyan, pyrrolotriazoles as)
IT **Photographic** couplers
(magenta, pyrazoloazoles as)
IT 143324-24-7 143779-35-5 143779-39-9 143795-04-4
150982-36-8 150982-37-9 151019-64-6
151019-65-7 151019-66-8 152793-66-3 152793-67-4 152793-68-5
152793-69-6 152793-70-9 152793-71-0 152793-72-1 152793-73-2
152793-74-3 152793-75-4
(**photog.** cyan coupler, for forming dye **images** having excellent color reproducibility and reduced color fading)
IT 111244-17-8 124351-77-5 133000-75-6 149311-40-0 149311-41-1
149311-42-2 151288-35-6 152793-76-5 152793-77-6 152793-78-7
152793-79-8 152793-80-1 152793-81-2 152793-82-3 152793-83-4
152793-84-5 152793-85-6 152793-86-7 152793-87-8 152793-88-9
152793-89-0 152793-90-3 152793-91-4

(**photog.** magenta coupler, for forming dye **images** having excellent color reproducibility and reduced color fading)

IT 130367-21-4P 143324-20-3P 143324-21-4P 143324-22-5P
150982-32-4P 150982-33-5P 150982-34-6P 152586-70-4P
152586-72-6P 152586-73-7P

(prepn. and reaction of, in prepg. **photog.** cyan coupler)

IT 143324-37-2P 143779-40-2P
(prepn. and use of, as **photog.** cyan coupler for forming dye **images** having excellent color reproducibility and reduced color fading)

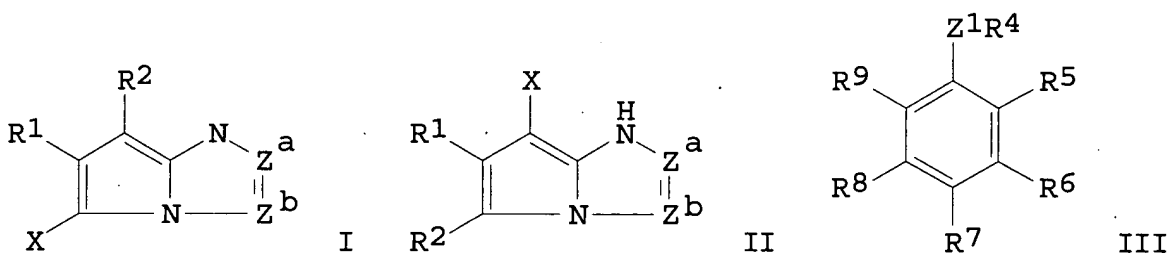
IT 70-23-5 99067-72-8 109871-03-6 125666-25-3,
1H-Pyrrole-3,4-dicarbonitrile 140859-54-7 152586-69-1
(reaction of, in prepg. **photog.** cyan couplers)

L66 ANSWER 34 OF 39 HCA COPYRIGHT 2005 ACS on STN

120:120583 **Silver halide color photographic**

material. Seto, Nobuo; Yoshioka, Yasuhiro; Suzuki, Makoto; Morigaki, Masakazu (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 544316 A1 **19930602**, 109 pp. DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1992-120281 19921127. PRIORITY: JP 1991-335851 19911127.

GI



AB A **Ag halide color photog.** material

having improved color-forming property, color reproducibility, and **image** stability comprises a support having provided thereon .gtoreq.1 **Ag halide** emulsion layer contg. a cyan coupler represented by the formula I or II (Za, Zb = CR₃ or N, provided that one of Za and Zb is N and the other is CR₃; R₁, R₂ = an electron-attracting group having a Hammett's substituent const. .sigma.p of .gtoreq.0.20 and the sum of the .sigma.p values of R₁ and R₂ is .gtoreq.0.65; R₃ = H or a substituent group; X = H or a group capable of splitting off upon reaction with an oxidized arom. primary amine color developing agent) which may be a part of a

polymer or copolymer and a compd. represented by the formula III (R4 = an aliph., arom., or heterocyclic group, SiR10R11R12, COR13, SO2R14, P(O)n R15R16; R5-9 = H, Z2R4, an aliph., arom., heterocyclic, aliph. oxycarbonyl, or arom. oxycarbonyl group, halogen, acyl, sulfonyl, carbamoyl, sulfamoyl, nitro, sulfo, or carboxyl; Z1 = O or NR17; Z2 = O, S, or NR17; R10-12 = an aliph., arom., aliph. oxy, or arom. oxy group; R13-14 = an aliph., arom., aliph. amino, or aliph. amino group; R15-16 = an aliph., arom., aliph. oxy, or arom. oxy group; n = 0 or 1; R17 = H or R4).

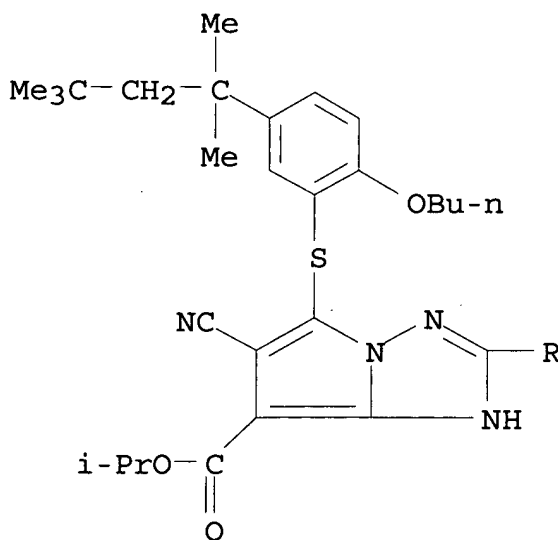
IT 150982-36-8

(photog. cyan coupler)

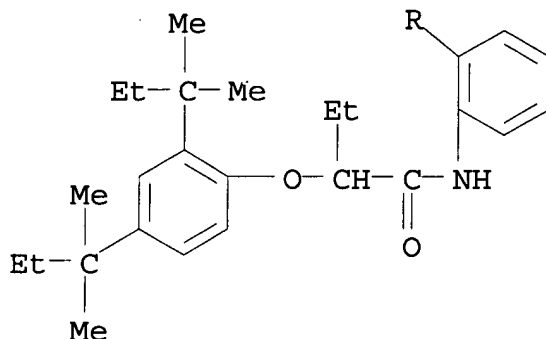
RN 150982-36-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)

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- IC ICM G03C007-30
- CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- ST **silver halide** color **photog** material; pyrrolotriazole cyan coupler color **photog**; benzene deriv color **photog** material
- IT **Photographic** emulsions
(contg. benzene derivs. with improved color-forming property, color reproducibility, and **image** stability)
- IT **Photographic** couplers
(cyan, pyrrolotriazoles as, with improved color-forming property and color reproducibility)
- IT 66259-60-7 75773-13-6 89929-65-7 98333-19-8 103815-67-4
108780-97-8 110126-86-8 116089-83-9 116090-11-0 123633-02-3
124079-79-4 132503-91-4 138268-70-9 138305-46-1 141290-51-9
147495-87-2 150440-56-5 150441-76-2 152586-74-8 152586-75-9
152586-76-0 152586-77-1 152586-78-2
(antifading agent, for **silver halide** color **photog.** materials)
- IT 143779-39-9 150982-35-7 150982-36-8 151019-64-6
151019-65-7 151019-67-9
(**photog.** cyan coupler)
- IT 143324-20-3P 143324-21-4P 143324-22-5P 150982-32-4P
150982-34-6P 152586-71-5P 152586-72-6P 152586-73-7P
(prepn. and reaction of, in prepg. **photog.** cyan coupler)
- IT 143324-37-2P 143779-40-2P
(prepn. and use of, as **photog.** cyan coupler)
- IT 70-23-5 99067-72-8 109871-03-6 125666-25-3,
1H-Pyrrole-3,4-dicarbonitrile 130367-21-4 152586-69-1
152586-70-4
(reaction of, in prepg. **photog.** cyan coupler)

L66 ANSWER 35 OF 39 HCA COPYRIGHT 2005 ACS on STN

120:41889 **Silver halide color photographic**

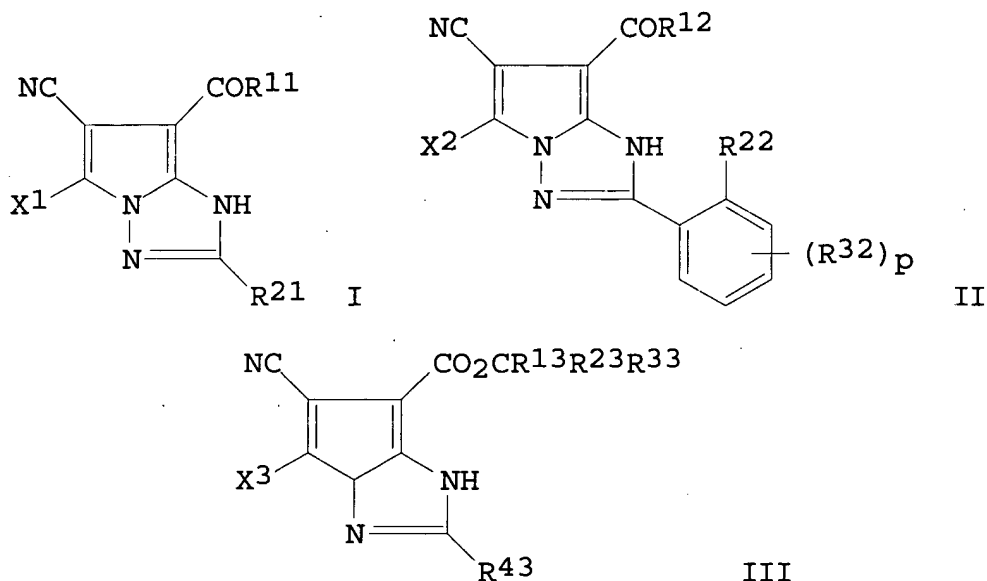
material. Suzuki, Makoto; Takahashi, Osamu; Shimada, Yasuhiro; Matsuoka, Koushin; Yoshioka, Yasuhiro (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 545300 A1 **19930609**, 86 pp.

DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN: EPXXDW.

APPLICATION: EP 1992-120280 19921127. PRIORITY: JP 1991-311212

19911127; JP 1991-335861 19911127; JP 1992-70002 19920221.

GI



AB The title material comprises .gtoreq.1 layer contg. a cyan coupler from I, II, and III [R₁₁ = alkyl, alkoxy, aryl, aryloxy; R₂₁, R₂₂, R₃₂, R₄₃ = substituent; R₁₂ = aliph., aryl, heterocyclyl, alkoxy, aryloxy, acylamino, heterocyclic amino, heterocyclic oxy; p = 0-4; R₁₃, R₂₃, R₃₃ = H, substituent provided that the total of Taft's substituent const. .sigma. value of all of them is .gtoreq.1.5; X₁-X₃ = H, group capable of splitting off by a coupling reaction; all of the above groups may be divalent and form a dimer or higher (co)polymer]. The material forms a color **image** with good color hue and fastness. It is hardly fogged and the dyes formed from the coupler hardly assoc. with each other in the material.

IT 151019-77-1 151019-81-7 151019-82-8

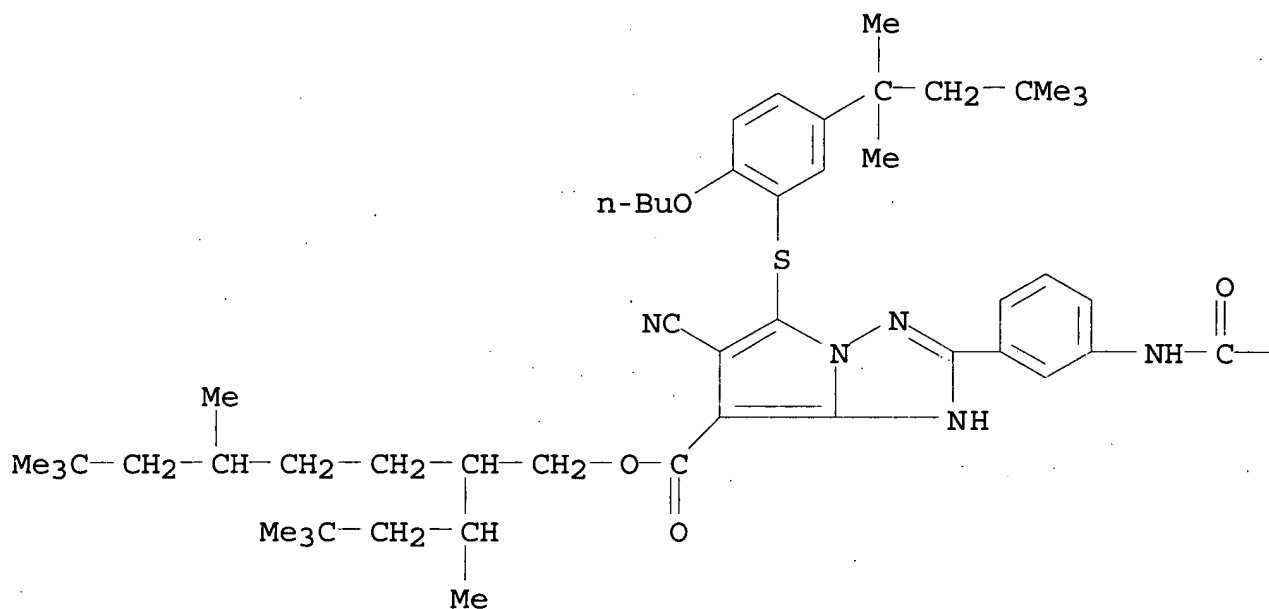
151019-83-9 151019-88-4 151019-90-8

(**photog.** cyan coupler)

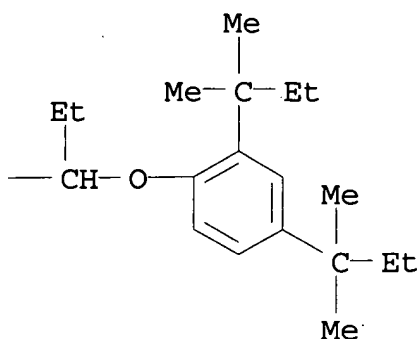
RN 151019-77-1 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)octyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

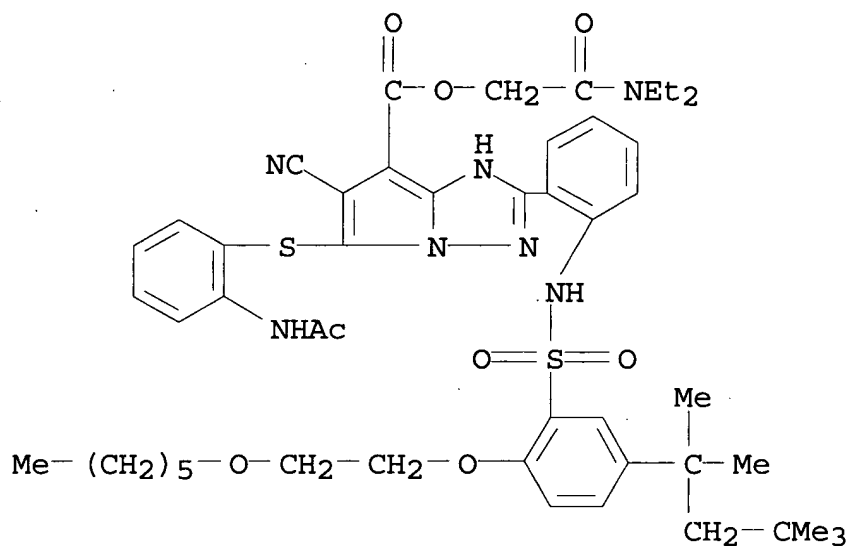


PAGE 1-B



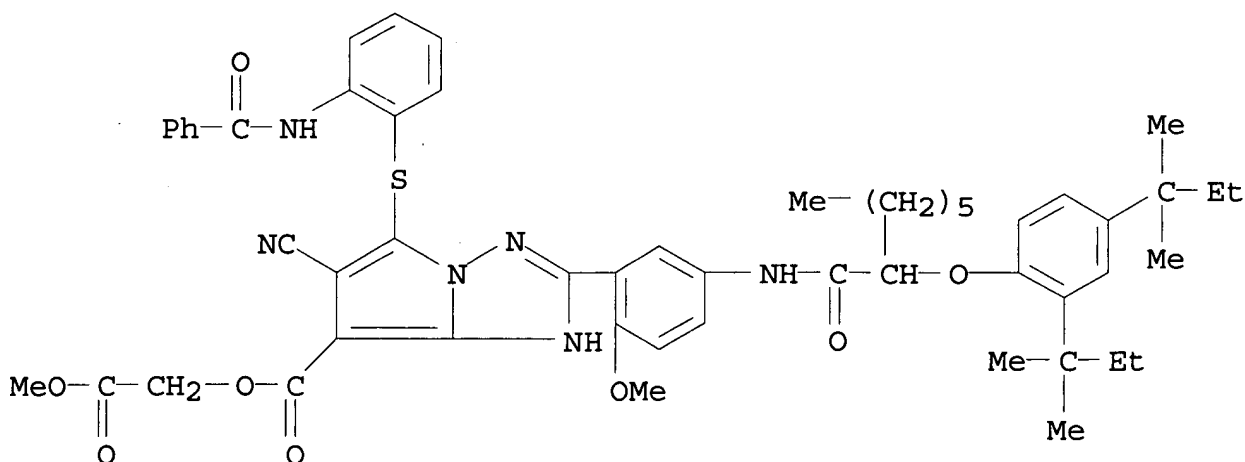
RN 151019-81-7 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[2-(acetylamino)phenyl]thio]-6-cyano-2-[2-[[[2-[2-(hexyloxy)ethoxy]-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-, 2-(diethyldiamino)-2-oxoethyl ester (9CI) (CA INDEX NAME)



RN 151019-82-8 HCA

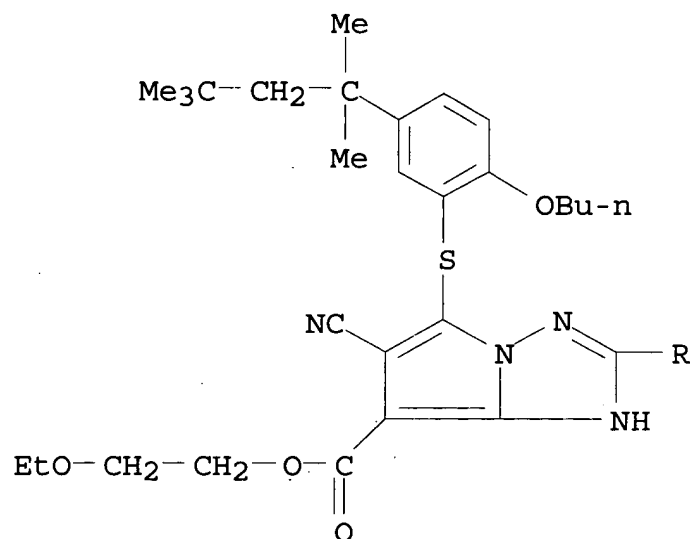
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[2-(benzoylamino)phenyl]thio]-2-[5-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxooctyl]amino]-2-methoxyphenyl]-6-cyano-, 2-methoxy-2-oxoethyl ester (9CI) (CA INDEX NAME)



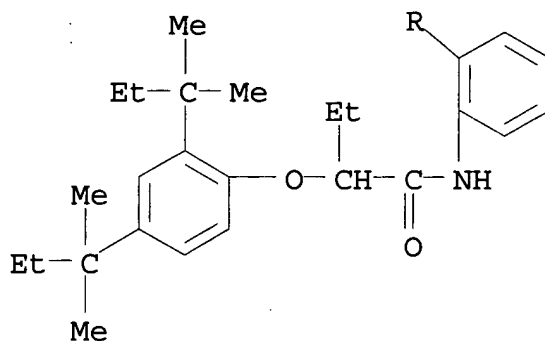
RN 151019-83-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 2-ethoxyethyl ester (9CI)
(CA INDEX NAME)

PAGE 1-A

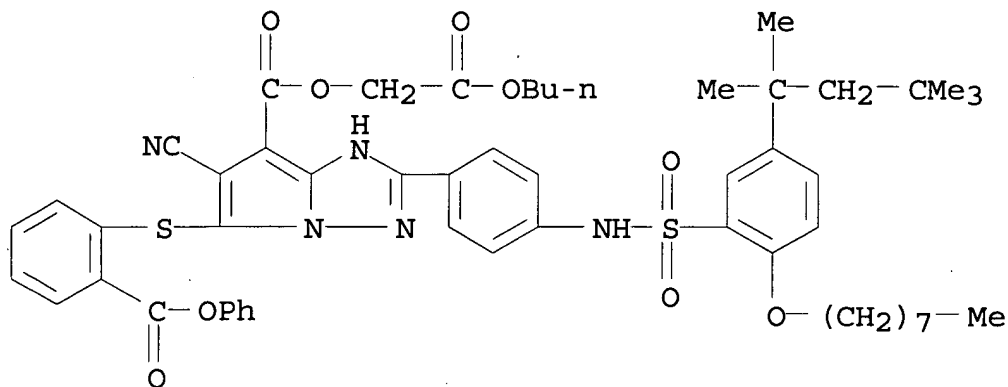


PAGE 2-A



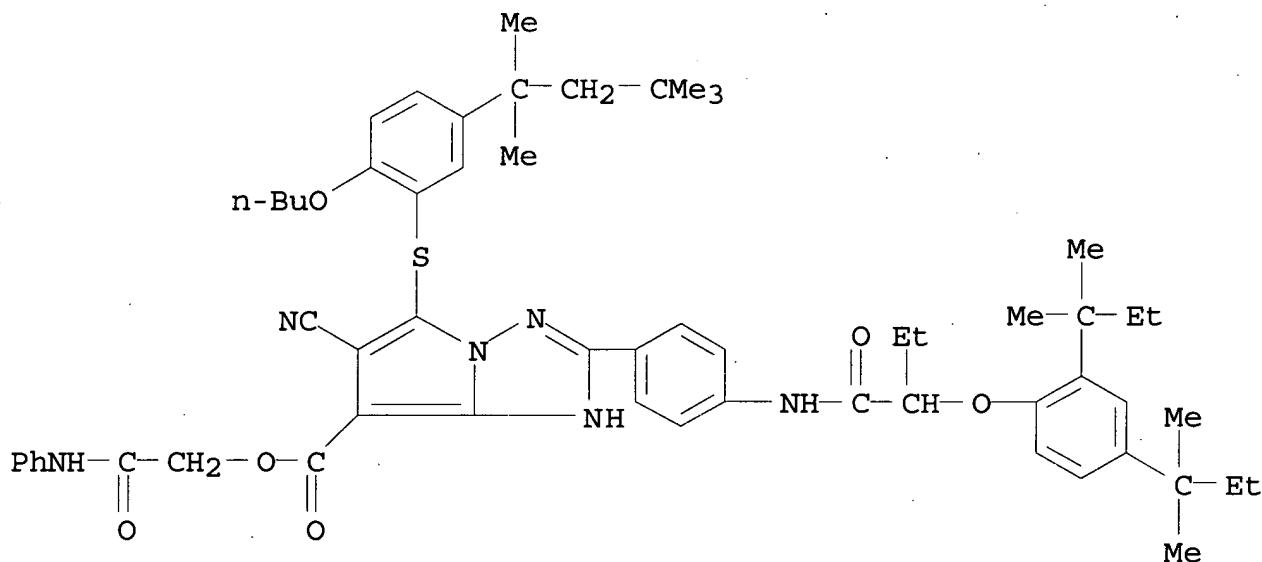
RN 151019-88-4 HCA
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-5-[[2-(phenoxy-carbonyl)phenyl]thio]-, 2-butoxy-2-oxoethyl ester (9CI) (CA

INDEX NAME)



RN 151019-90-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[4-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 2-oxo-2-(phenylamino)ethyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38

ICS G03C001-83

CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 Section cross-reference(s): 41

ST cyan coupler photog film

IT Photographic couplers

(cyan, for good hue and color fastness)

IT 146822-43-7 146822-52-8 151019-77-1 151019-78-2
 151019-79-3 151019-80-6 151019-81-7 151019-82-8
 151019-83-9 151019-84-0 151019-85-1 151019-86-2
 151019-87-3 151019-88-4 151019-89-5 151019-90-8
 151019-91-9 151019-92-0 151019-93-1 151019-94-2 151839-67-7
 151865-62-2

(**photog.** cyan coupler)

IT 146822-29-9P 151019-75-9P 151019-76-0P 151839-64-4P
 151839-65-5P 151839-66-6P

(prepn. and reaction of, **photog.** cyan coupler from)

IT 146822-51-7P 146822-53-9P 151019-65-7P 151865-61-1P
 (prepn. and use of, as **photog.** cyan coupler)

L66 ANSWER 36 OF 39 HCA COPYRIGHT 2005 ACS on STN

120:19164 **Silver halide color photographic**

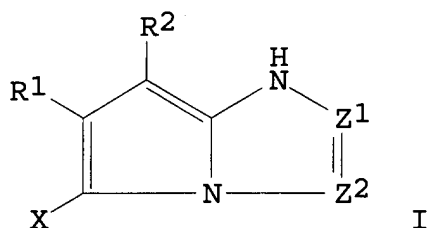
material. Morigaki, Masakazu; Yoshioka, Yasuhiro; Seto, Nobuo (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 545305 A1

19930609, 97 pp. DESIGNATED STATES: R: DE, FR, GB, NL.

(English). CODEN: EPXXDW. APPLICATION: EP 1992-120294 19921127.

PRIORITY: JP 1991-335820 19911127.

GI



AB The title material comprises .gtoreq.1 pyrrolotriazole cyan coupler I [one of Z1, Z2 is -C(R3): and the other one is -N:; R1, R2 = electron attractive group having a Hammett's const. .rho.p value of .gtoreq.0.2 and the sum of the .rho.p values of R1 and R2 is .gtoreq.0.65; R3 = H, substituent; X = H, group that can be eliminated by a coupling reaction with the oxidant of a color developer; optionally R1-R3 and X may be a bivalent group which forms a dimer or polymer; R2 and X can interchange their positions]. The material also contains .gtoreq.1 lipophilic compd. selected from phenolic compds., S peroxide compds., and amides claimed by 3 Markush structures. The **photog.** material has improved storage stability and color developability and the cyan coupler

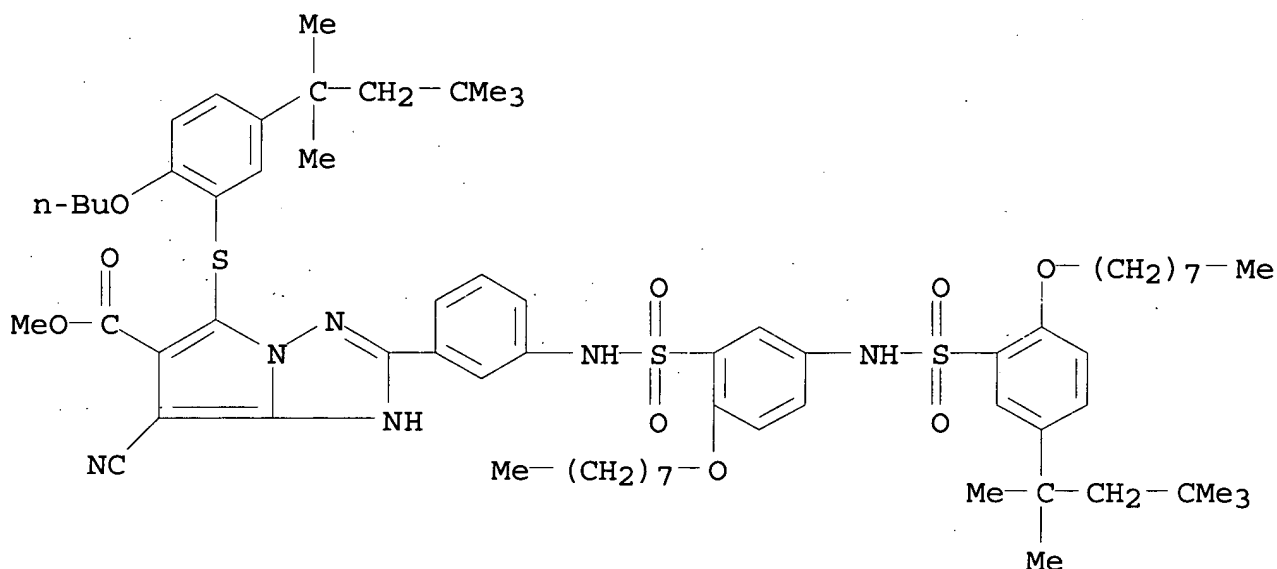
produces fast color.

IT 146822-40-4 150982-36-8

(photog. cyan coupler)

RN 146822-40-4 HCA

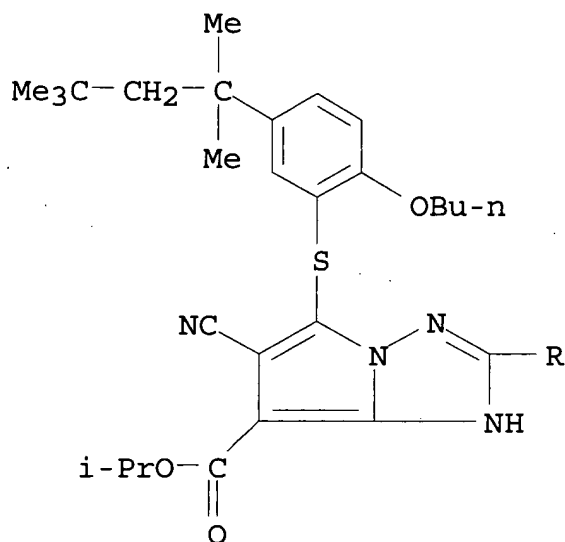
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid,
5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-7-cyano-2-[3-
[[2-(octyloxy)-5-[[2-(octyloxy)-5-(1,1,3,3-
tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]sulfonyl]amino]phenyl]-
, methyl ester (9CI) (CA INDEX NAME)



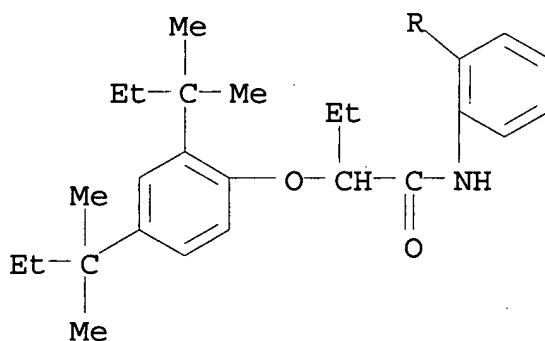
RN 150982-36-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-
oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-
tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
(CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM G03C007-30
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 Section cross-reference(s): 41
 ST cyan coupler **photog**; lipophilic compd phenol sulfur
 peroxide amide; **photog** paper lipophilic compd
 IT **Photographic** paper
 (color, lipophilic compds. and cyan couplers for)
 IT **Photographic** couplers
 (cyan, pyrrolotriazole, for fast color)
 IT 85-60-9 119-47-1 123-28-4 991-84-4 2082-79-3 2469-45-6

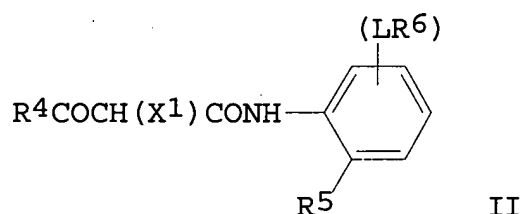
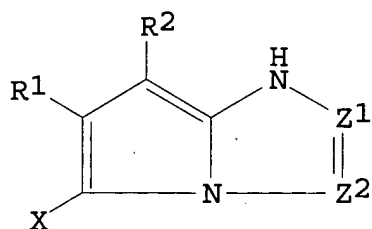
3127-14-8 7335-03-7 23873-36-1 31994-60-2 33145-10-7
 35439-93-1 36437-37-3 40278-59-9 41484-35-9 41556-26-7
 63941-39-9 65894-72-6 71067-09-9 76434-12-3 83044-89-7
 85238-64-8 87667-27-4 89131-33-9 89829-20-9 104541-32-4
 106135-09-5 115054-41-6 118410-88-1 125051-31-2 133711-54-3
 135122-76-8 141975-49-7 143223-13-6 148725-98-8 148725-99-9
 150441-79-5 151019-68-0 151019-69-1 151019-71-5 151019-72-6
 151019-73-7 151019-74-8 151865-63-3
 (lipophilic compd., in **photog.** emulsion)
 IT 143779-39-9 **146822-40-4** 150982-35-7 **150982-36-8**
 151019-64-6 151019-65-7 151019-66-8 151019-67-9
 (**photog.** cyan coupler)
 IT 143324-20-3P 143324-21-4P 143324-22-5P 150982-32-4P
 150982-33-5P 150982-34-6P
 (prepn. and reaction of, **photog.** cyan coupler from)
 IT 143324-37-2P 143779-40-2P
 (prepn. and use of, as **photog.** cyan coupler)

L66 ANSWER 37 OF 39 HCA COPYRIGHT 2005 ACS on STN

119:282104 **Silver halide color photographic**

material. Naruse, Hideaki; Suzuki, Makoto; Sato, Takehiko (Fuji Photo Film Co., Ltd., Japan). Eur. Pat. Appl. EP 545301 A1 **19930609**, 96 pp. DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1992-120283 19921127. PRIORITY: JP 1991-335892 19911127.

GI



AB The title material comprises .gtoreq.1 pyrrolotriazole cyan coupler I [one of Z1, Z2 is CR3 and the other one is N; R1, R2 = electron-attractive group having Hammett's substituent const. (.sigma.) value .gtoreq.0.2 and the sum of the .sigma. values of R1 and R2 is .gtoreq.0.65; R3 = H, substituent; X = H, group which can be eliminated upon coupling reaction; X and R2 can switch their locations; optionally R1-R3 or X may be bivalent group which forms dimer or polymer through the group or a homopolymer or copolymer through a high mol. wt. chain]. The material also comprises .gtoreq.1 yellow coupler from II [R4 = tertiary alkyl, aryl; R5 = F,

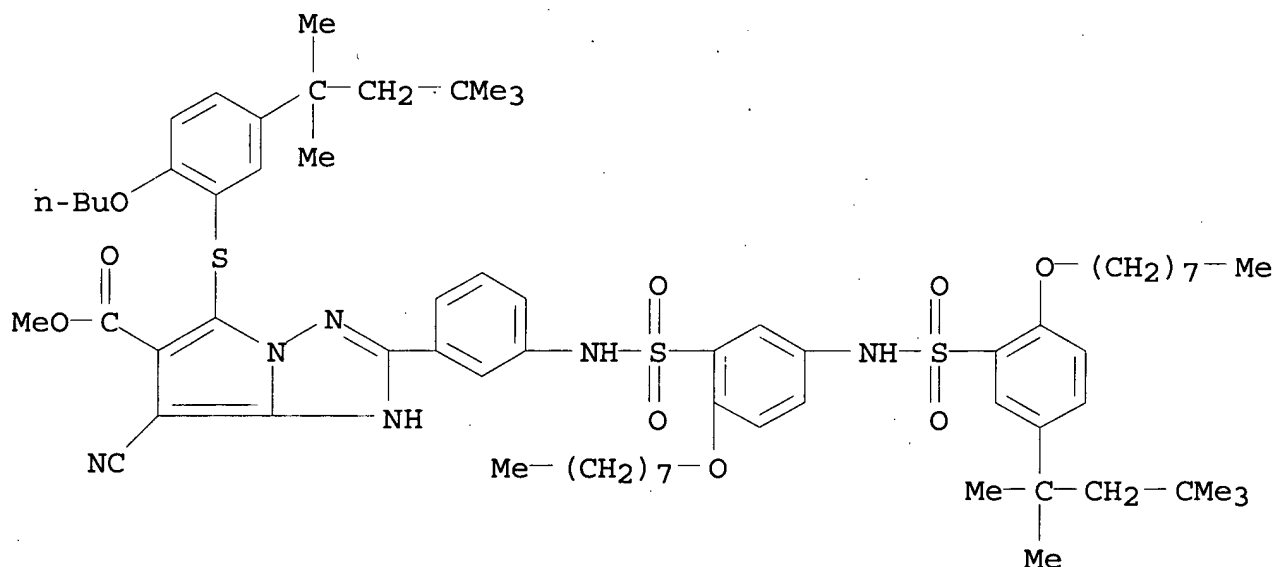
alkyl, aryl, alkoxy, aryloxy, dialkylamino, alkylthio, arylthio; L = O, CO₂, NHCO, etc.; R₆ = halogen, alkyl, aryl, alkoxy, aryloxy, aralkyl, alkoxyaryl, alkylaryloxy, arylalkoxy; X₁ = X]. The **photog.** material is capable of providing **images** having improved spectral absorption characteristics, excellent color reproducibility, and yet a sufficiently low min. d.

IT 146822-40-4 150982-36-8 150982-37-9

(photog. cyan coupler)

RN 146822-40-4 HCA

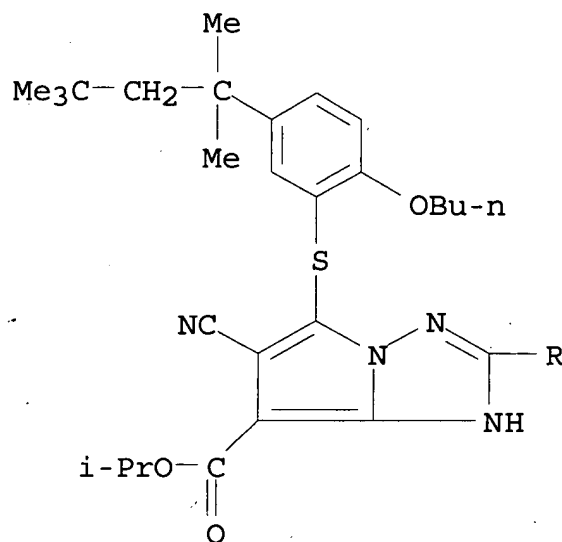
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid, 5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-7-cyano-2-[3-[[[2-(octyloxy)-5-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]sulfonyl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



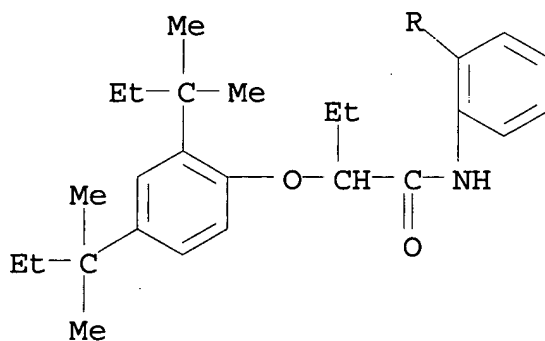
RN 150982-36-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 2-[2-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI) (CA INDEX NAME)

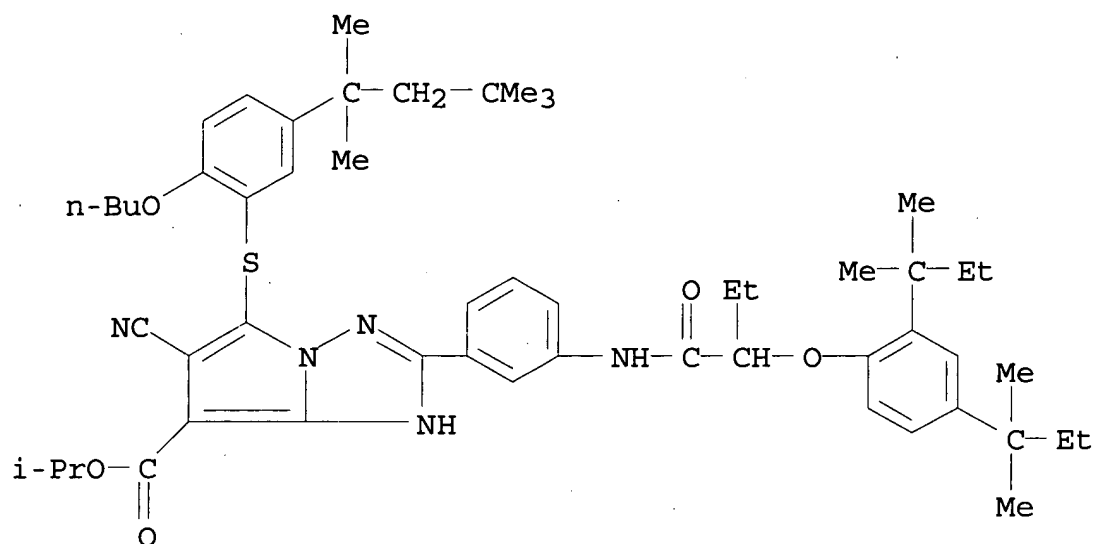
PAGE 1-A



PAGE 2-A



RN 150982-37-9 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-, 1-methylethyl ester (9CI)
 (CA INDEX NAME)



- IC ICM G03C007-32
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 Section cross-reference(s): 41
 ST cyan coupler **photog**; yellow coupler **photog**;
photog paper coupler
 IT **Photographic** paper
 (color, yellow and cyan coupler combinations for)
 IT **Photographic** couplers
 (cyan, combinations of yellow and)
 IT **Photographic** couplers
 (yellow, combinations of cyan and)
 IT 146822-40-4 150982-35-7 150982-36-8
 150982-37-9 150982-38-0 151651-64-8
 (**photog.** cyan coupler)
 IT 135851-30-8 135851-32-0 135851-36-4 137320-46-8 142383-25-3
 (**photog.** yellow coupler)
 IT 143324-20-3P 143324-21-4P 143324-22-5P 150982-32-4P
 150982-33-5P 150982-34-6P
 (prepn. and reaction of, **photog.** cyan coupler from)
 IT 143324-37-2P 143779-40-2P
 (prepn. and use of, as **photog.** cyan coupler)

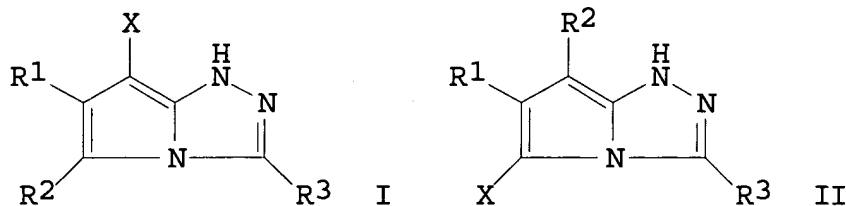
L66 ANSWER 38 OF 39 HCA COPYRIGHT 2005 ACS on STN

117:201795 Cyan coupler for **silver halide** color

photographic material. Suzuki, Makoto; Sato, Tadahisa;
 Sato, Kozo; Ishii, Yoshio (Fuji Photo Film Co., Ltd., Japan). Eur.
 Pat. Appl. EP 488248 A1 19920603, 82 pp. DESIGNATED
 STATES: R: CH, DE, FR, GB, IT, LI, NL. (English). CODEN: EPXXDW.

APPLICATION: EP 1991-120319 19911127. PRIORITY: JP 1990-326218
19901128; JP 1991-236894 19910826.

GI



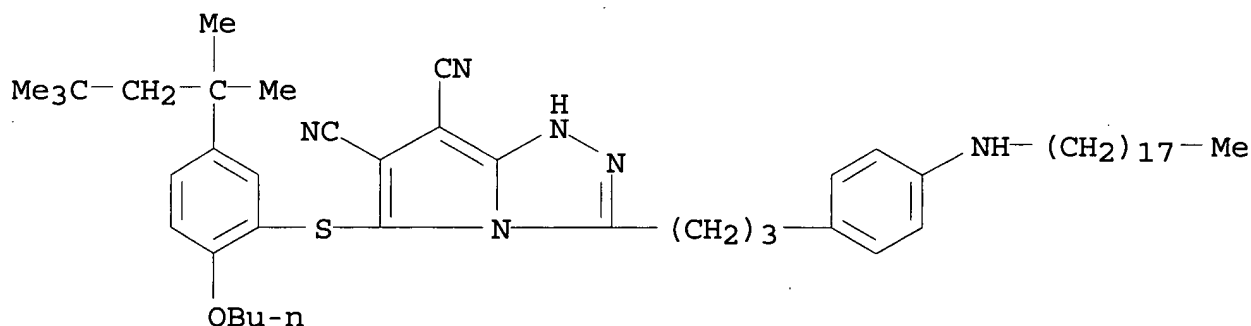
AB A **Ag halide color photog.** material is described comprising a pyrrolo[2,1-c]-1,2,4-triazole cyan coupler having the formula I or II [R1-R3 = H, a substituent, provided that .gtoreq.1 of R1-R3 is an electron-withdrawing group which has a Hammett's substituent const. .gtoreq.0.15; R1-R2 may form a ring; X = H, a substituent capable of being released upon coupling reaction; the coupler may form a dimer or a polymer]. The **photog.** material contg. the above coupler has improved **image**-forming property and color reproducibility.

IT 143779-42-4

(as **photog.** cyan coupler)

RN 143779-42-4 HCA

CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-6,7-dicarbonitrile,
5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-3-[3-[4-(octadecylamino)phenyl]propyl]- (9CI) (CA INDEX NAME)



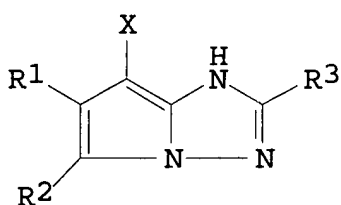
IC ICM G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 41

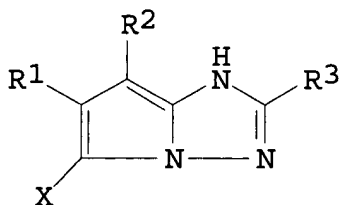
ST cyan coupler **photog** pyrrolotriazole deriv
 IT **Photographic** couplers
 (cyan, pyrrolotriazole-type)
 IT 143779-24-2 143779-25-3 143779-26-4 143779-27-5 143779-28-6
 143779-29-7 143779-30-0 143779-33-3 143779-34-4 143779-35-5
 143779-36-6 143779-37-7 143779-38-8 143779-39-9 143779-41-3
 143779-42-4 143795-03-3 143795-04-4
 (as **photog.** cyan coupler)
 IT 143779-43-5P 143779-44-6P 143779-45-7P 143779-46-8P
 143779-47-9P 143779-48-0P 144082-59-7P 144082-60-0P
 (prepn. and reaction of, in prepg. **photog.** cyan
 coupler)
 IT 143779-23-1P 143779-31-1P 143779-32-2P 143779-40-2P
 (prepn. and use of, as **photog.** cyan coupler)

L66 ANSWER 39 OF 39 HCA COPYRIGHT 2005 ACS on STN
 117:160779 Cyan **image** forming method and **silver**
halide color **photographic** material containing cyan
 coupler. Suzuki, Makoto; Sato, Tadahisa; Ishii, Yoshio; Naruse,
 Hideaki; Shimada, Yasuhiro; Sato, Kozo (Fuji Photo Film Co., Ltd.,
 Japan). Eur. Pat. Appl. EP 491197 A1 **19920624**, 87 pp.
 DESIGNATED STATES: R: CH, DE, FR, GB, IT, LI, NL. (English).
 CODEN: EPXXDW. APPLICATION: EP 1991-120433 19911128. PRIORITY: JP
 1990-334786 19901130; JP 1991-226325 19910813.

GI



I

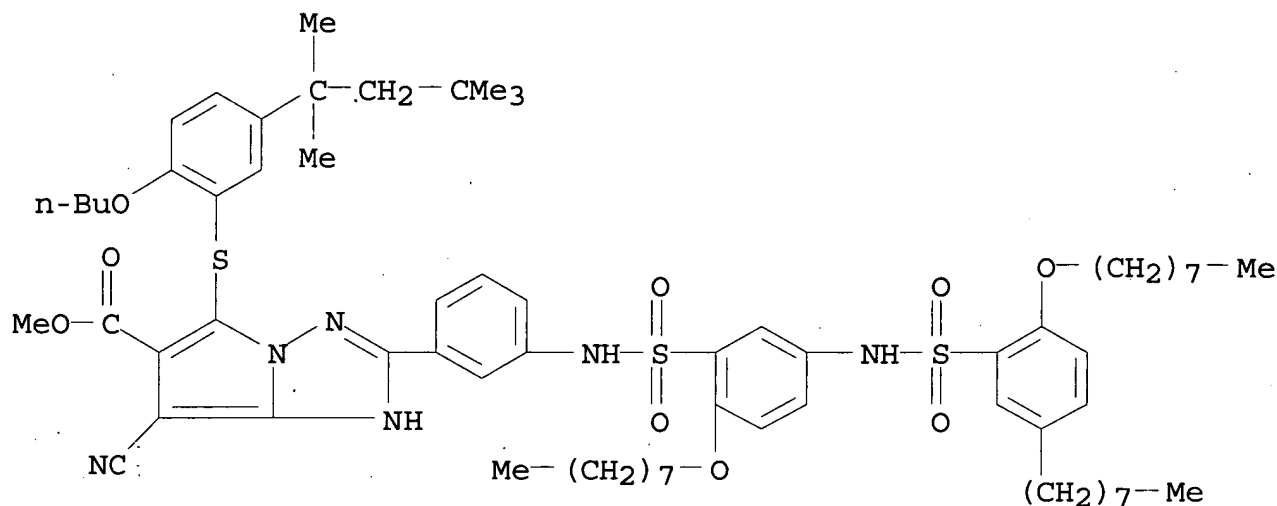


II

AB The title coupler are I or II [R1, R2 = electron withdrawing group having Hammett's substituent const. (.sigma.p) .gtoreq.0.2; R1-R2 may be bonded to form a ring; the sum of .sigma.p for R1 and R2 is .gtoreq.0.65; R3 = H, substituent; H, releasable group; the coupler may be in form of a dimer or polymer at R1-R3 or X]. An **image** forming method is also claimed. The coupler has improved color forming property, color reproducibility, and **image** preservability.

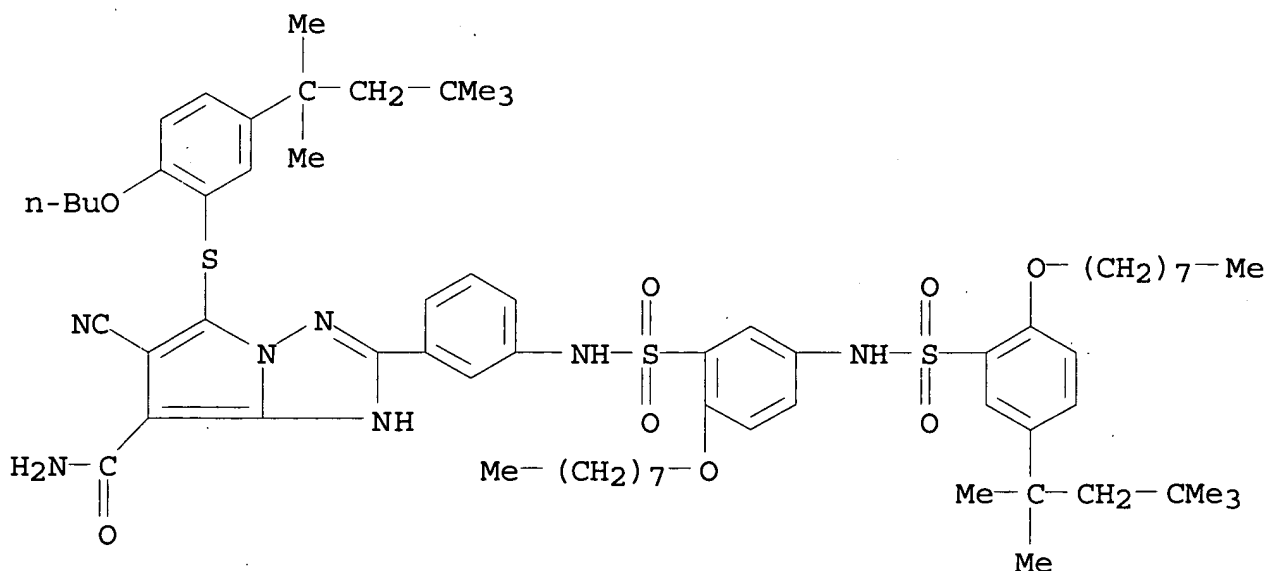
IT **143324-39-4 143324-42-9**
 (**photog.** cyan coupler from)
 RN 143324-39-4 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carboxylic acid,

5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-7-cyano-2-[3-[[[5-[[[5-octyl-2-(octyloxy)phenyl]sulfonyl]amino]-2-(octyloxy)phenyl]sulfonyl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 143324-42-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxamide, 5-[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]thio]-6-cyano-2-[3-[[[2-(octyloxy)-5-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]sulfonyl]amino]phenyl]- (9CI) (CA INDEX NAME)



IC ICM G03C007-38

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 41

ST cyan coupler **photog** pyrrolotriazole

IT **Photographic** couplers
(cyan, pyrrolotriazole)

IT 143324-23-6 143324-24-7 143324-25-8 143324-26-9 143324-27-0
143324-28-1 143324-29-2 143324-30-5 143324-31-6 143324-37-2
143324-38-3 **143324-39-4** 143324-40-7 143324-41-8
143324-42-9 143324-43-0 143324-44-1 143324-45-2
(**photog.** cyan coupler from)

IT 143324-15-6P 143324-16-7P 143324-17-8P 143324-18-9P
143324-19-0P 143324-20-3P 143324-21-4P 143324-22-5P
(prepn. and reaction of, **photog.** cyan coupler from)

IT 143324-32-7P 143324-33-8P 143324-34-9P 143324-35-0P
143324-36-1P
(prepn. and use of, as **photog.** cyan coupler)

=> => d 167 10,20,30,40,50,60,70,80,90,100,110,120,130,140,150,152 cbib
abs hitstr hitind

L67 ANSWER 10 OF 152 HCA COPYRIGHT 2005 ACS on STN

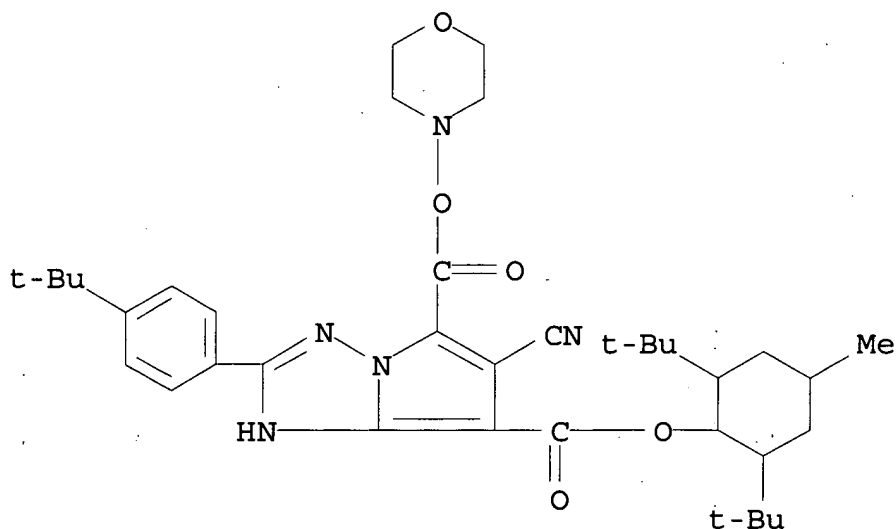
138:17994 **Silver halide** color **photographic**
paper showing excellent color reproduction by digital
imaging system. Soejima, Susumu; Yoneyama, Hiroyuki (Fuji
Photo Film Co., Ltd., Japan). Jpn. Kokai Tokyo Koho JP 2002351027
A2 20021204, 69 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
2001-154700 20010523.

AB After the color development process, the unexposed areas of the
title **photog.** paper show reflection densities of
.ltoreq.0.07, .ltoreq.0.09, and .ltoreq.0.07 at 450, 550, and 650
nm, resp., and the red-exposed areas of the **photog.** paper
satisfy specified reflection d. relations and cyan max. d. The cyan
color forming emulsion layer contains a specified cyan coupler. The
photog. paper contains a specified pigment(s). The
photog. paper, esp. suitable for digital colorproofs, shows
excellent white background and color reproducibility.

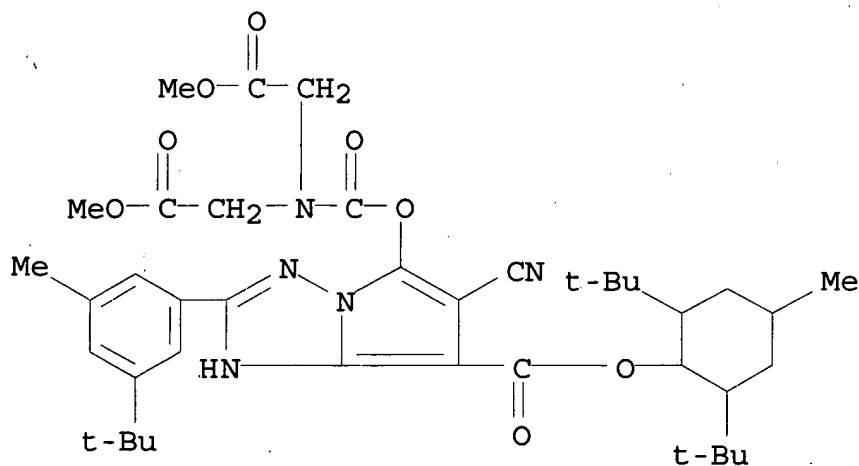
IT **243844-33-9 405922-49-8**
(cyan coupler in color **photog.** paper for showing
excellent color reprodn. by digital **imaging** system)

RN 243844-33-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[(4-
morpholinyl)oxy]carbonyl-, 2,6-bis(1,1-dimethylethyl)-4-
methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 405922-49-8 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[[bis(2-methoxy-2-oxoethyl)amino]carbonyl]oxy]-6-cyano-2-[3-(1,1-dimethylethyl)-5-methylphenyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-20
 ICS G03C007-00; G03C007-34; G03C007-38; G03C007-392
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST silver halide color photog paper cyan
 coupler digital imaging
 IT Color photographic paper

Cyan couplers

Graphic arts

(color **photog.** paper contg. specified cyan coupler for showing excellent color reprodn. by digital **imaging** system)

IT **Photographic** emulsions

(color; color **photog.** paper contg. specified cyan coupler for showing excellent color reprodn. by digital **imaging** system)

IT 81-77-6

(Microlith Blue A 3R-K; pigment in color **photog.** paper contg. specified cyan coupler for showing excellent color reprodn. by digital **imaging** system)

IT 31037-84-0 93951-12-3 117827-06-2 **243844-33-9**
289708-41-4 **405922-49-8**

(cyan coupler in color **photog.** paper for showing excellent color reprodn. by digital **imaging** system)

IT 17741-63-8, Violet B-K

(pigment in color **photog.** paper contg. specified cyan coupler for showing excellent color reprodn. by digital **imaging** system)

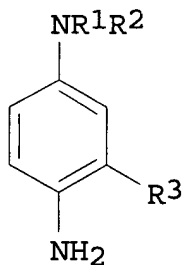
L67 ANSWER 20 OF 152 HCA COPYRIGHT 2005 ACS on STN

136:348326 **Silver halide** color **photographic**

material and methods for treatment of the material, for **image** formation, and for formation of color proof.

Takahashi, Osamu; Yoneyama, Hiroyuki; Shimada, Yasuhiro (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2002122969 A2 20020426, 92 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2000-315963 20001016.

GI



I

AB The **photog.** material involves a cyan coupler-contg. **Ag halide** emulsion layer, a magenta coupler-contg. **Ag halide** emulsion layer, and a yellow coupler-contg. **Ag halide** emulsion layer on a

support, which satisfies equations regarding wavelength corresponding to absorbance and max. absorbance in spectrophotometry curve of the material after exposure and development using aminoanilines I [R1, R2 = (substituted) alkyl; R3 = substituent] as a main developer. The material after exposure is bleach-fixed with a liq. contg. 1 .times. 10-2-2 mol bromide ion and/or 5 .times. 10-4-5 .times. 10-2 mol iodide ion. The material is scan for .ltoreq.103 s for exposure and developed. The color proof is manufd. by exposure and development of the above material according to color-sepd. yellow **image** information, magenta **image** information, cyan **image** information, and black **image** information. The process is suitable for manuf. of so-called direct digital color proof.

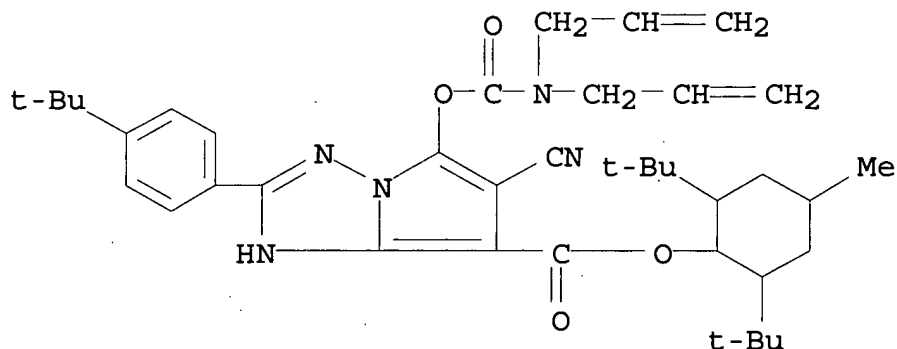
IT 184947-09-9 188745-52-0 210965-01-8

(cyan coupler; for **silver halide** color

photog. material for manuf. of color proof for printing plate making)

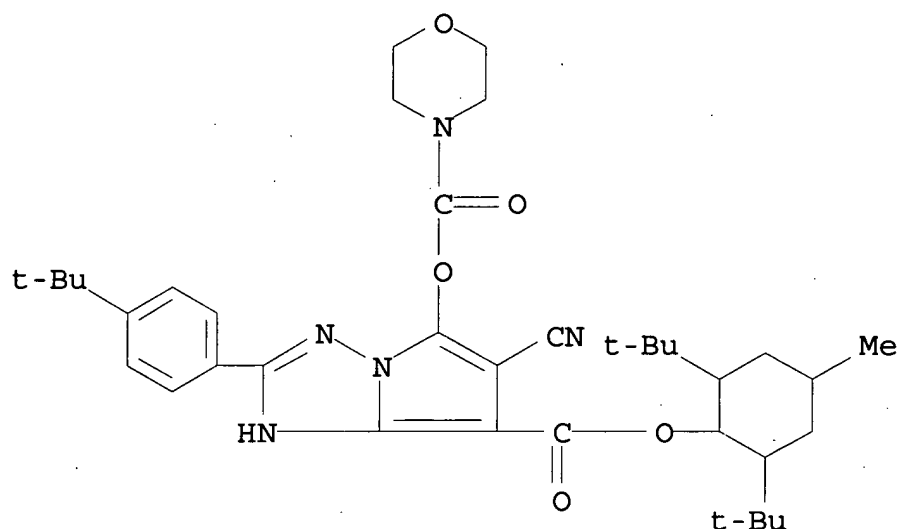
RN 184947-09-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[[di-2-propenylamino)carbonyl]oxy]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)

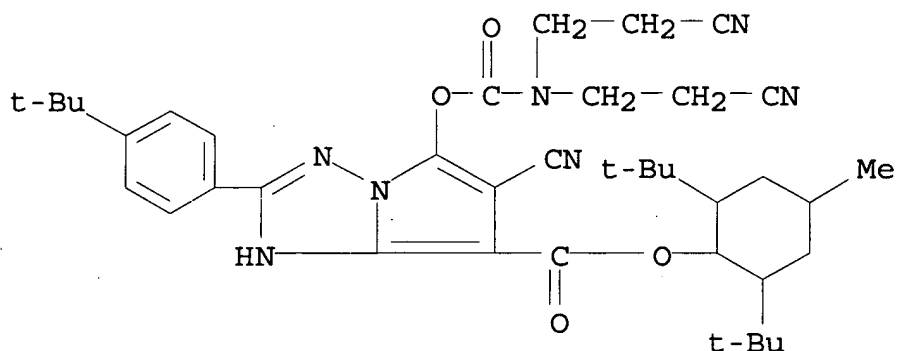


RN 188745-52-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[(4-morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



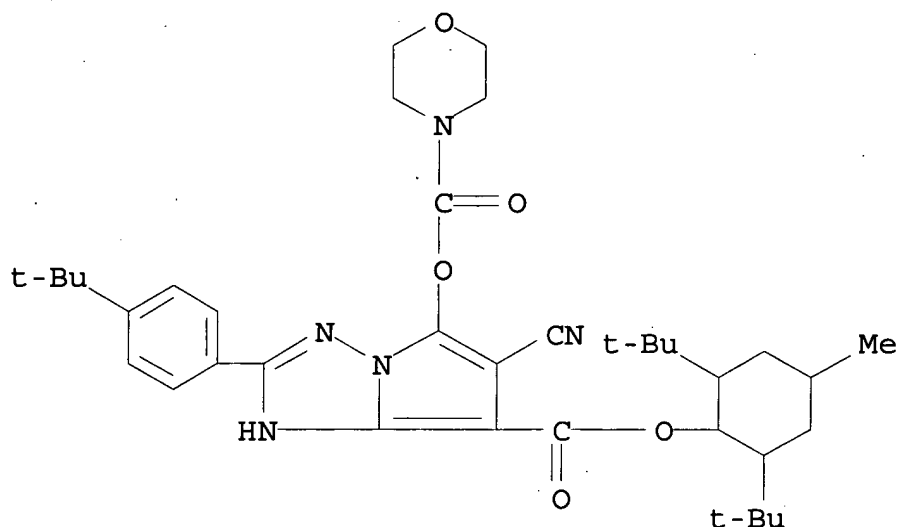
RN 210965-01-8 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[[bis(2-cyanoethyl)amino]carbonyl]oxy]-6-cyano-2-[4-(1,1-
 dimethylethyl)phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-
 methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-20
 ICS G03C005-08; G03C007-00; G03C007-413; G03C007-42
 CC 74-6 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST color proof manuf **silver halide** emulsion;
photog coupler emulsion printing plate making; developer
 bleaching agent **photog** emulsion
 IT **Photographic** developers
 (aminoanilines; for **silver halide** color
photog. material for manuf. of color proof for printing
 plate making)

- IT Bromides, uses
Iodides, uses
(in **photog.** bleaching agent; for **silver halide** color **photog.** material for manuf. of color proof for printing plate making)
- IT Cyan couplers
Magenta couplers
Yellow couplers
(in **silver halide** color **photog.** material for manuf. of color proof for printing plate making)
- IT Bleaching agents
(**photog.**, contg. bromide and/or iodide ion; for **silver halide** color **photog.** material for manuf. of color proof for printing plate making)
- IT **Photographic emulsions**
Printing plates
(**silver halide** color **photog.** material for manuf. of color proof for printing plate making)
- IT 184947-09-9 188745-52-0 210965-01-8
289708-41-4
(cyan coupler; for **silver halide** color **photog.** material for manuf. of color proof for printing plate making)
- IT 136647-65-9 417702-40-0 417702-41-1 417702-42-2 417702-43-3
417702-44-4
(magenta coupler; for **silver halide** color **photog.** material for manuf. of color proof for printing plate making)
- IT 137320-46-8 144365-76-4 417702-37-5 417702-38-6 417702-39-7
(yellow coupler; for **silver halide** color **photog.** material for manuf. of color proof for printing plate making)
- L67 ANSWER 30 OF 152 HCA COPYRIGHT 2005 ACS on STN
135:350620 High sensitive color photothermographic material containing ultraviolet absorber. Kato, Kazunobu; Yabuki, Yoshiharu (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001312025 A2 20011109, 76 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2000-131445 20000428.
- AB The material contains an org. Ag salt, a reducing agent, a color-forming material, a photosensitive **Ag halide**, a hydrophobic and thermoplastic org. binder, and the UV absorber. It showed improved **image** storage stability.
- IT 188745-52-0
(coupler; photothermog. material contg. UV absorbent)
- RN 188745-52-0 HCA
- CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[(4-

morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C001-498
ICS G03C001-498
CC 74-7 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
IT 7588-27-4 188745-52-0
(coupler; photothermog. material contg. UV absorbent)

L67. ANSWER 40 OF 152 HCA COPYRIGHT 2005 ACS on STN

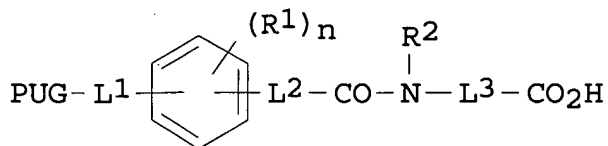
134:302954 **Silver halide photographic**

material containing compound with novel ballast group. Mikoshiba, Takashi; Tateishi, Keiichi; Matsuda, Naoto (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2001100378 A2

20010413, 40 pp. (Japanese). CODEN: JKXXAF. APPLICATION:

JP 1999-279837 19990930.

GI



AB The material contains I (L1 = alkylene, CO, SO2, NR3, O, or their combination; L2 = alkylene, O, S, NR4, or their combination; L3 =

arylene, alkylene, cycloalkylene, bicycloalkylene, R1 = substituent; R2-4 = H, substituent; n = 0-4; PUG = residue of **photog.** useful compd.). The above PUG may be a cyan coupler residue. The ballast group shows high reactivity and anti-diffusion property, the cyan coupler with the ballast group shows less magenta stain, and the material gives clear **images** with lightfastness.

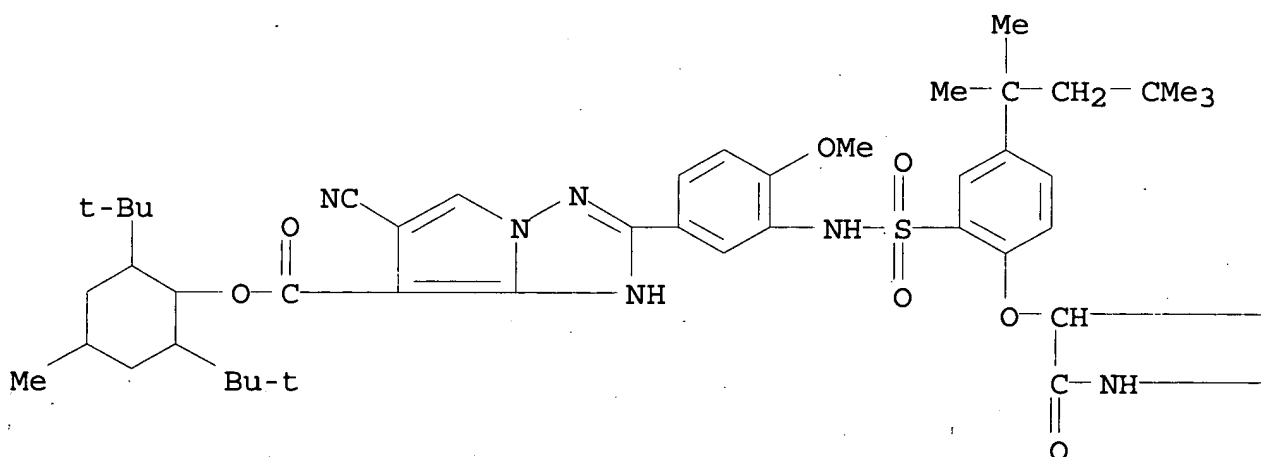
IT 334001-31-9 334001-32-0 334001-33-1
334001-34-2

(**photog.** coupler having novel ballast group)

RN 334001-31-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[3-[[[2-[[1-[[2-carboxyethyl)amino]carbonyl]undecyl]oxy]-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]-4-methoxyphenyl]-6-cyano-, 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester
(9CI) (CA INDEX NAME)

PAGE 1-A

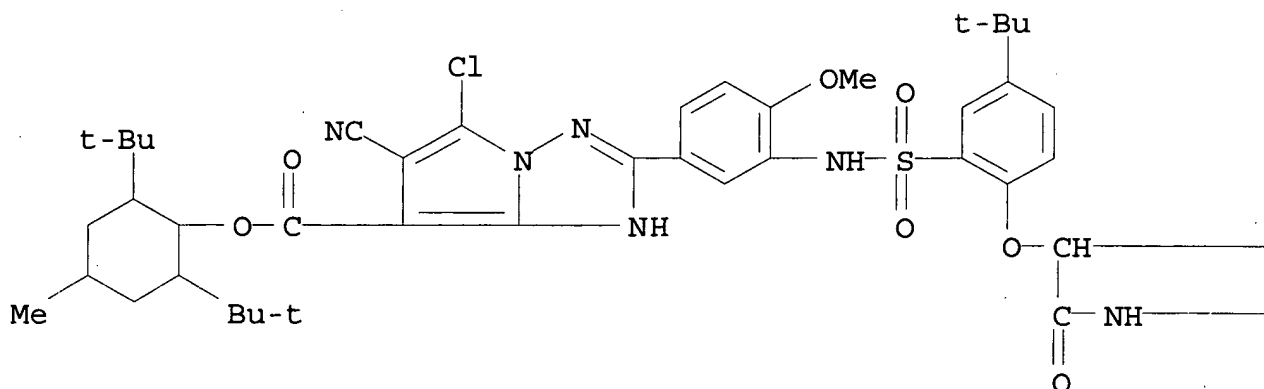


PAGE 1-B

— (CH₂)₉— Me—— CH₂— CH₂— CO₂H

RN 334001-32-0 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[3-[[[2-[[1-[[3-carboxypropyl]amino]carbonyl]nonyl]oxy]-5-(1,1-
 dimethylethyl)phenyl]sulfonyl]amino]-4-methoxyphenyl]-5-chloro-6-
 cyano-, 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester
 (9CI) (CA INDEX NAME)

PAGE 1-A

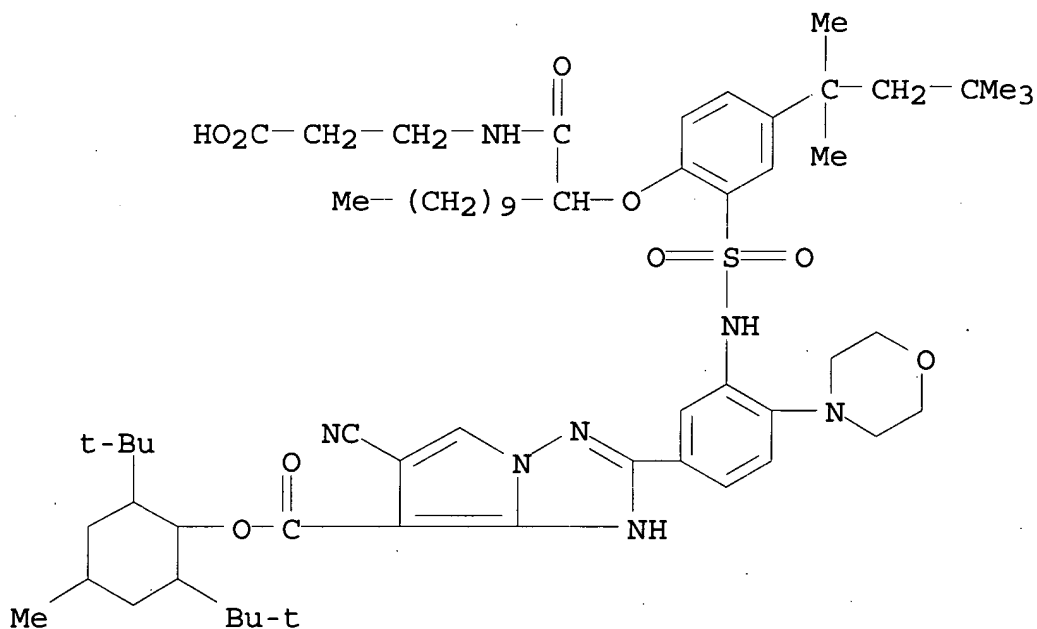


PAGE 1-B

— (CH₂)₇—Me—— (CH₂)₃—CO₂H

RN 334001-33-1 HCA

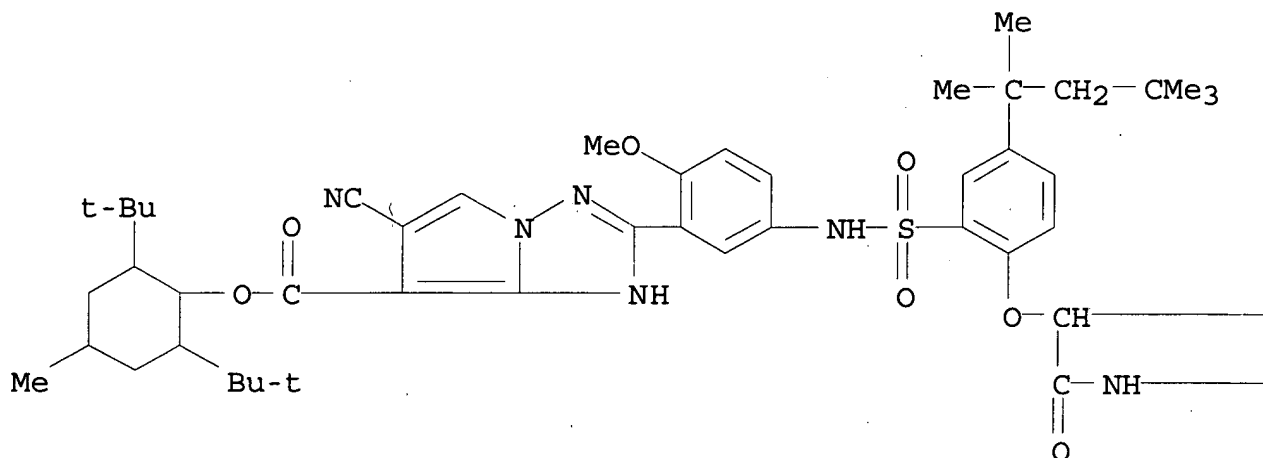
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[3-[[[2-[[1-[[[(2-carboxyethyl)amino]carbonyl]undecyl]oxy]-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]-4-(4-morpholinyl)phenyl]-6-cyano-, 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester (9CI) (CA INDEX NAME)



RN 334001-34-2 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[5-[[[2-[[1-[[[(2-carboxyethyl)amino]carbonyl]undecyl]oxy]-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]-2-methoxyphenyl]-6-cyano-, 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester
 (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— (CH₂)₉—Me——— CH₂—CH₂—CO₂H

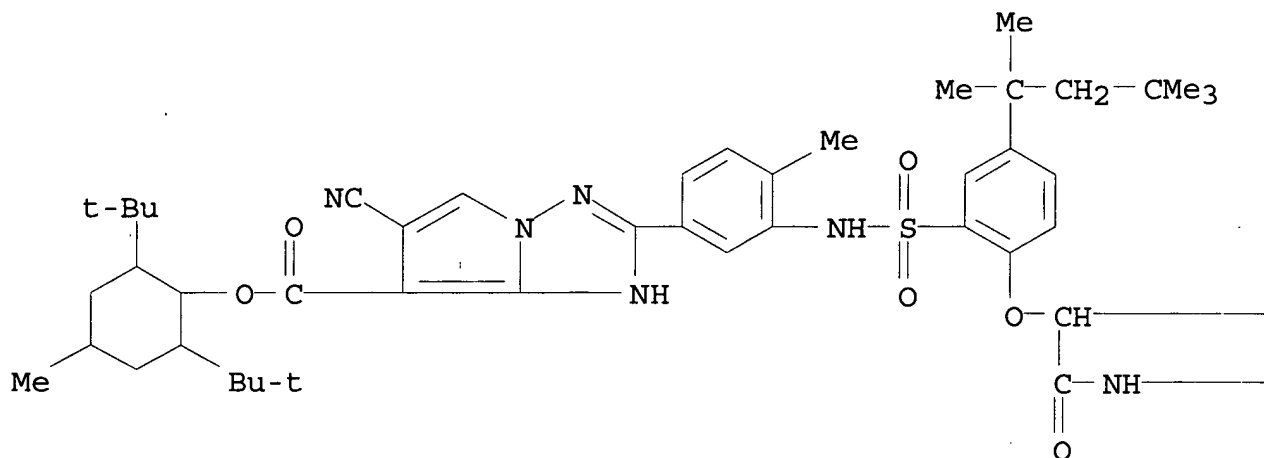
IT 334001-30-8P

(photog. coupler having novel ballast group)

RN 334001-30-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[3-[[[2-[[1-[[2-carboxyethyl]amino]carbonyl]undecyl]oxy]-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]-4-methylphenyl]-6-cyano-, 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester
 (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— (CH₂)₉—Me—— CH₂—CH₂—CO₂H

IC ICM G03C007-305
 ICS G03C001-43; G03C007-38; C07C235-20; C07C309-75; C07C311-08;
 C07C311-29; C07D231-52; C07D233-66; C07D295-20; C07D413-06;
 C07D487-04

CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)

ST photog coupler ballast group

IT Photographic couplers
 (photog. coupler having novel ballast group)

IT 334001-31-9 334001-32-0 334001-33-1
 334001-34-2 334001-35-3 334001-36-4 334001-37-5
 334001-38-6 334001-39-7 334001-40-0 334001-41-1 334001-42-2

334001-43-3 334001-44-4 334001-45-5 334001-46-6 334001-47-7
 (photog. coupler having novel ballast group)

IT 334001-30-8P

(photog. coupler having novel ballast group)

IT 924-73-2P, .beta.-Alanine ethyl ester

(prepn. of photog. coupler with novel ballast group)

IT 7790-94-5, Chlorosulfonic acid

(prepn. of photog. coupler with novel ballast group)

L67 ANSWER 50 OF 152 HCA COPYRIGHT 2005 ACS on STN

133:342412 Silver halide photographic

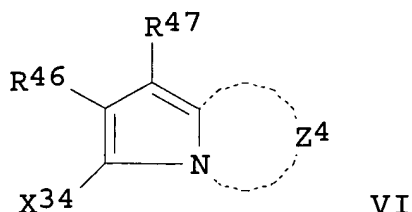
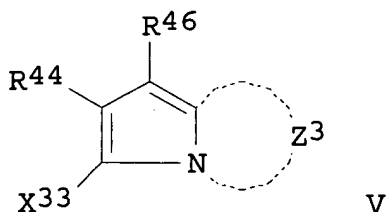
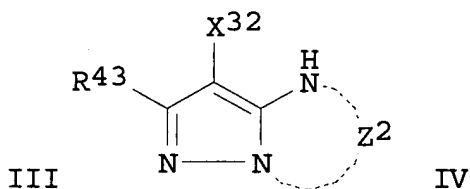
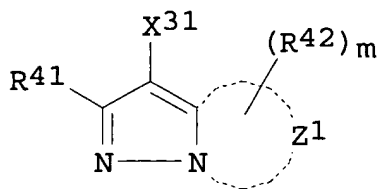
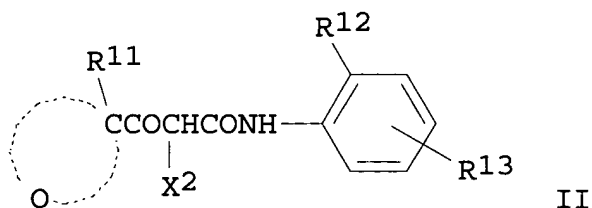
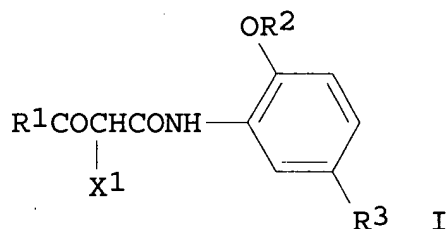
material using reflective support coated with polymer layer.

Yamazaki, Isatada; Nakamura, Takeshi (Konica Co., Japan). Jpn.

Kokai Tokyo Koho JP 2000305218 A2 20001102, 57 pp.

(Japanese). CODEN: JKXXAF. APPLICATION: JP 1999-116541 19990423.

GI



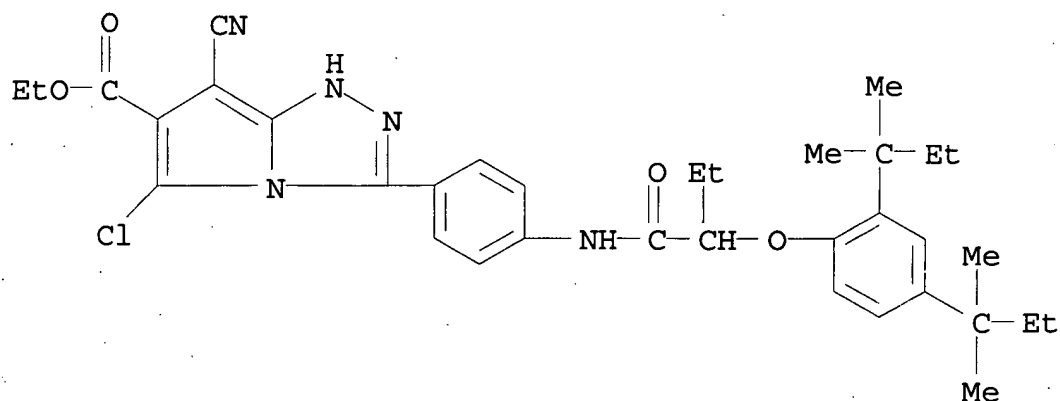
AB In the material comprising a reflective support composed of a base paper coated with resin layers on both sides and .gtoreq.1 Ag halide emulsion layer and .gtoreq.1

non-photosensitive hydrophilic colloidal layer, the resin layer on the emulsion layer side contains a biaxially drawn polymer layer (thickness 10-30 μm) contg. ≥ 10 wt.% white pigments. In the material, (1) the total gelatin in the emulsion layer and the colloidal layer may be ≤ 6.5 g/m², (2) ≥ 1 of the emulsion layer may contain ≥ 1 yellow coupler selected from I, II, and R21R22NCOCX3HCONHR23 (R1-2 = alkyl, cycloalkyl, aryl; R3 = H, halo, acylamino; X1-3 = releasing group by the reaction with developer oxide; R11 = monovalent substituent other than H; Q = nonmetal atoms to form 3-5-membered hydrocarbon ring or a heterocycle contg. N, S, O, or P; R12 = H, halo, alkyl, alkoxy, aryloxy, amino; R13 = substituent; R21-22 = alkyl, aryl, heterocycle; R23 = aryl, heterocycle; R21 and R22 may form a N-contg. heterocycle), or (3) ≥ 1 of the emulsion layer may contain ≥ 1 cyan coupler selected from III, IV, V, and VI (R41, R43, R46-47 = H, substituent; R42 = substituent; when m = 0, R41 = substituent with Hammett's $\sigma_p \geq 0.20$; when m = ≥ 1 , ≥ 1 of R41 and R42 is substituent with Hammett's $\sigma_p \geq 0.20$; Z1, Z3 = nonmetal atoms to form 5-membered N-contg. heterocycle; Z2 = nonmetal atoms to form 6-membered heterocycle which may be substituted or condensed with benzene ring; Z4 = nonmetal atoms to form 6-membered heterocycle; R44-45 = substituent with $\sigma_p \geq 0.20$; X31-34 = releasing group by coupling reaction with developer oxide). The material shows good color reproducibility, pressure resistance, cutting property, and suited for rapid processing.

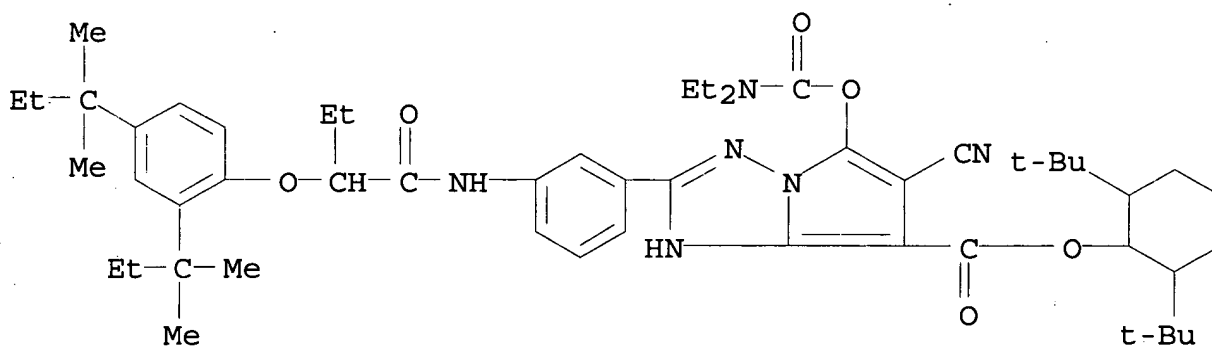
IT 154021-59-7 200137-20-8 303189-37-9
303189-38-0

(photog paper contg. amide compd. yellow coupler and
azole compd. cyan coupler)

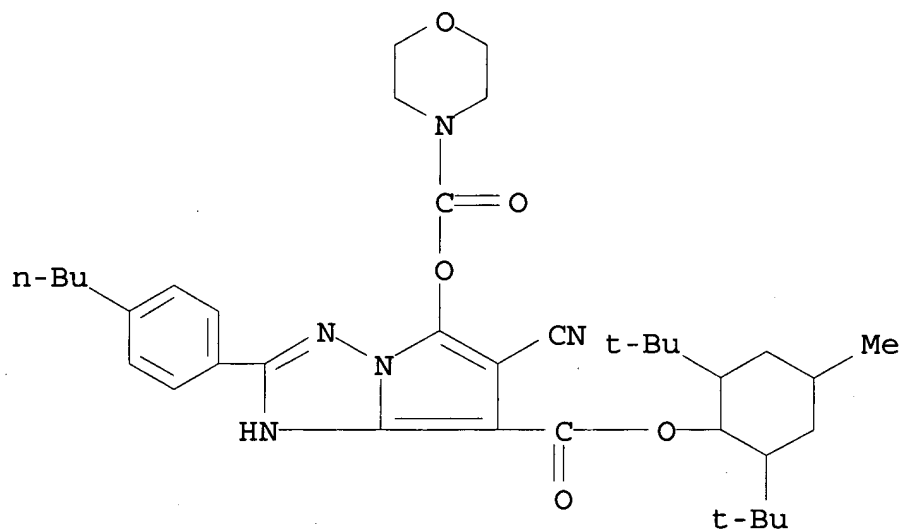
RN 154021-59-7 HCA
CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-6-carboxylic acid,
3-[4-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-chloro-7-cyano-, ethyl ester (9CI) (CA
INDEX NAME)



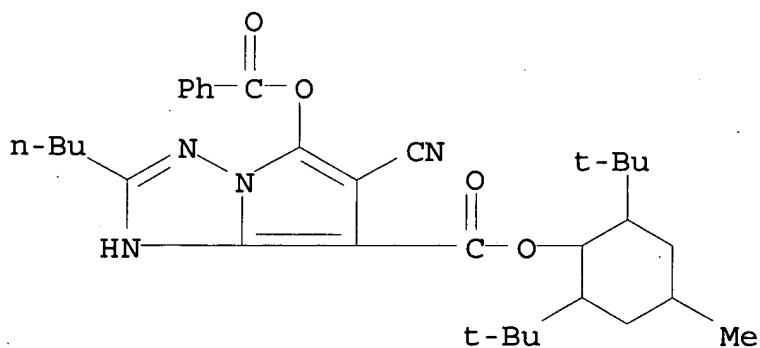
RN 200137-20-8 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[3-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-6-cyano-5-[[[(diethylamino)carbonyl]oxy]-, 2,6-bis(1,1-dimethylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



RN 303189-37-9 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-(4-butylphenyl)-6-cyano-5-[(4-morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 303189-38-0 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-(benzoyloxy)-2-butyl-6-cyano-, 2,6-bis(1,1-dimethylethyl)-4-
 methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C001-79
 ICS G03C001-74; G03C007-36; G03C007-38
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST photog paper polymer layer white pigment; coupler
 photog paper cyan yellow
 IT Photographic couplers
 (photog paper contg. amide compd. yellow coupler and
 azole compd cyan coupler)
 IT Photographic paper
 (photog. paper coated with biaxially drawn polymer
 contg. white pigment)

- IT 127983-19-1 144916-81-4 150919-56-5 151645-05-5
 154021-59-7 155218-20-5 170446-98-7 172650-64-5
 200137-20-8 208345-82-8 256367-16-5 267890-39-1
 303189-34-6 303189-36-8 303189-37-9 303189-38-0
 (photog paper contg. amide compd. yellow coupler and
 azole compd. cyan coupler)
 IT 9003-07-0, Polypropylene 9003-53-6, Polystyrene
 (photog. paper coated with biaxially drawn polymer
 contg. white pigment)
 IT 13463-67-7, Titania, uses
 (photog. paper coated with biaxially drawn polymer
 contg. white pigment)

L67 ANSWER 60 OF 152 HCA COPYRIGHT 2005 ACS on STN

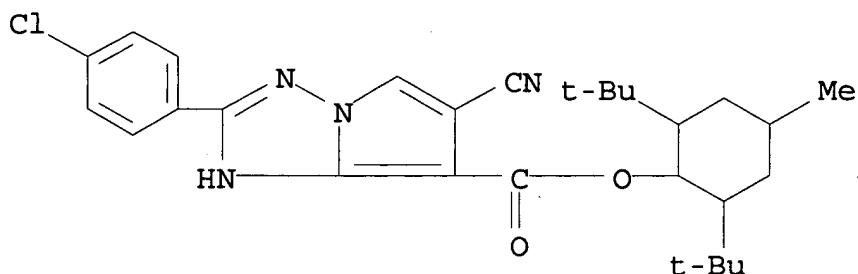
131:315796 **Image** information recording using **silver**
halide color **photographic** material. Iwai,
 Yoshiko; Hirabayashi, Shigehito (Konica Co., Japan). Jpn. Kokai
 Tokkyo Koho JP 11295863 A2 19991029 Heisei, 88 pp.
 (Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-116002 19980410.

AB A photosensitive material, contg. a photosensitive **Ag**
halide, a color developing agent, a dye-donating coupler,
 and a binder on a support, is developed following imagewise exposure
 and the **image** information formed in the material is
 converted to elec. information in a wet state without drying and
 recorded on other recording material on the basis of the
 information. High quality **image** information is obtained
 simply and rapidly without drying process by using a **Ag**
halide color **photog.** material contg. a color
 developing agent therein.

IT 175709-28-1 247248-79-9
 (photog. film contg. coupler and developer giving
images readable by optical character reader)

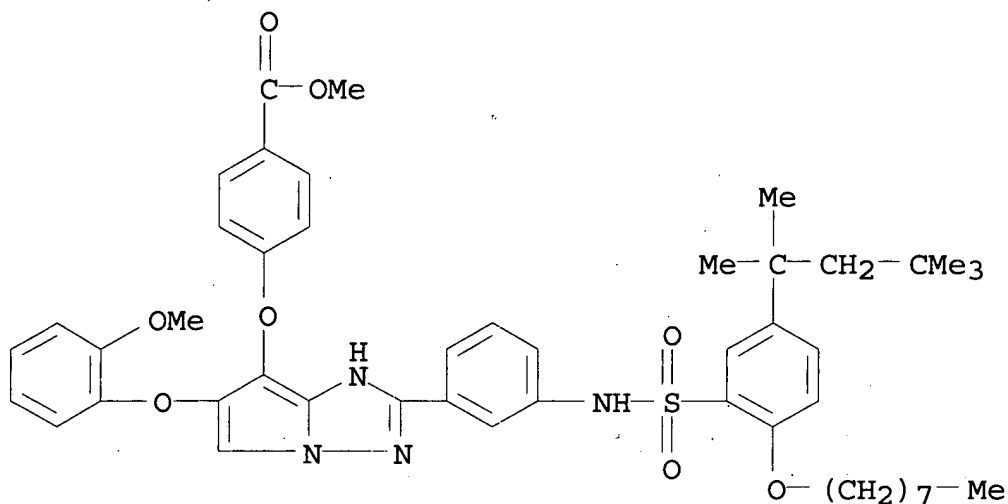
RN 175709-28-1 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-(4-chlorophenyl)-6-cyano-, 2,6-bis(1,1-dimethylethyl)-4-
 methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 247248-79-9 HCA

CN Benzoic acid, 4-[[6-(2-methoxyphenoxy)-2-[3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrrolo[1,2-b][1,2,4]triazol-7-yl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-392

ICS G03C001-42

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **photog** film coupler developer; optical character reader
photog image

IT **Photographic** films

(**photog.** film contg. coupler and developer giving
images readable by optical character reader)

IT 111130-66-6 160028-18-2 175539-10-3 **175709-28-1**

182297-11-6 187977-00-0 188894-83-9 188894-91-9 247248-76-6

247248-77-7 247248-78-8 **247248-79-9** 247248-80-2

247248-81-3

(**photog.** film contg. coupler and developer giving
images readable by optical character reader)

L67 ANSWER 70 OF 152 HCA COPYRIGHT 2005 ACS on STN

131:122880 Developer composition for **silver halide** color **photographic** material and development. Noguchi, Atsushi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 11194462 A2 **19990721** Heisei, 56 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-361249 19971226.

AB The developer compn. consists of 1 part of a concd. soln. in which the concn. of carbonates is in the range of 0.5-2 M, the K⁺ to Na⁺ ratio is in the range of 1-4, and the pH value is .gtoreq.12.5. A **Ag halide** color **photog.** material contg.

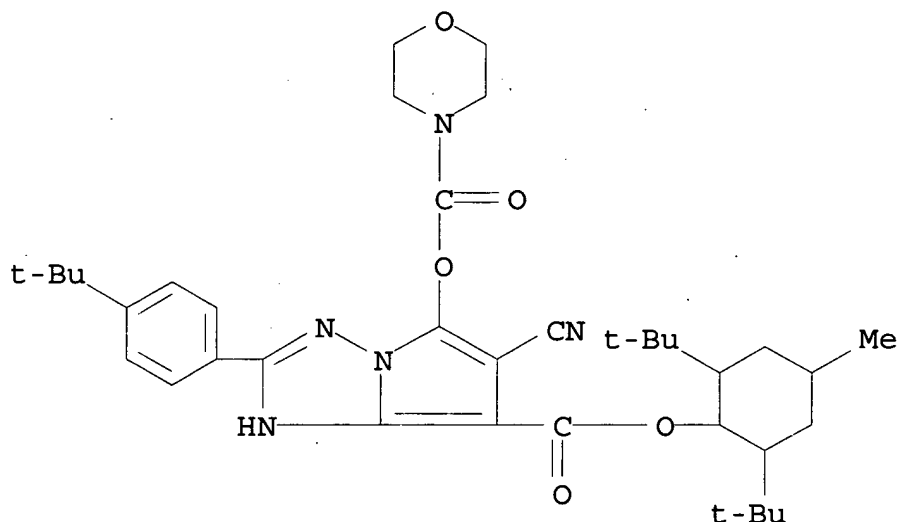
a pyrrolotriazole deriv. as a cyan coupler is developed with the compn. The compn. contg. developing agents in a high concn. shows excellent storage stability and the deposition of insol. matters upon storage and coloration of the processing soln. and container due to air oxidn. are prevented.

IT 188745-52-0

(development of **photog.** film contg. pyrrolotriazole deriv. as a cyan coupler)

RN 188745-52-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[(4-morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-413

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **photog** developer carbonate; potassium sodium content **photog** developer; pyrrolotriazole coupler **photog** film development

IT Surfactants

(anionic; carbonate, potassium, and sodium ion content-controlled **photog.** developer)

IT **Photographic** developers

(carbonate, potassium, and sodium ion content-controlled **photog.** developer)

IT Cyan couplers

(development of **photog.** film contg. pyrrolotriazole deriv. as a cyan coupler)

IT 102-71-6, uses 122-20-3, Triisopropanolamine 584-08-7, Potassium

carbonate 657-84-1, Sodium p-toluenesulfonate 5080-22-8,
Isopropylhydroxylamine
(carbonate, potassium, and sodium ion content-controlled
photog. developer)

IT 188745-52-0

(development of **photog.** film contg. pyrrolotriazole
deriv. as a cyan coupler)

IT 118181-83-2

(surfactant; carbonate, potassium, and sodium ion
content-controlled **photog.** developer)

L67 ANSWER 80 OF 152 HCA COPYRIGHT 2005 ACS on STN

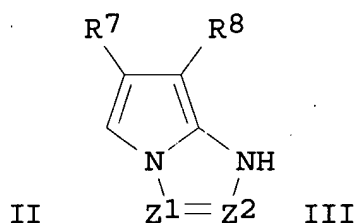
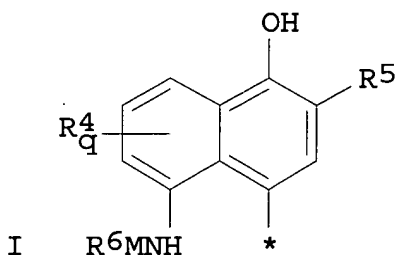
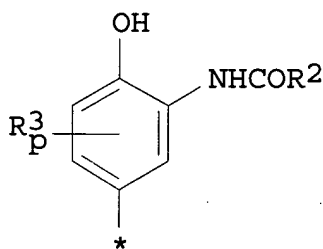
130:344973 **Silver halide photographic**

material for color filter formation. Mizukawa, Hiroki (Fuji Photo
Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 11109123 A2

19990423 Heisei, 48 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1997-267112 19970930.

GI



AB The material contains a red dye- or a magenta dye-releasing coupler having a formula Q1(TIME)nLmDY or a red or magenta colored coupler having a formula Q2N:NR1 [Q1, 2 = coupler residue I, II, or III; TIME = timing group that releases (TIME)n-1LmDY after eliminating Q1 or timing group that releases (TIME)n-2LmDY after being eliminated from TIME; R1 = aryl, heterocyclic; n, m = 0, 1, 2, 3; L = divalent group; DY = red or magenta dye residue; R2 = alkyl, cycloalkyl, alkenyl, aryl, heterocyclic, alkoxy, cycloalkyloxy, alkenyloxy, aryloxy, alkylamino, cycloalkylamino, alkenylamino, arylamino, heterocyclic amino; R3, 4 = substituent; p = 0-3 integer; R5, 7, 8 = H, substituent; q = 0-4 integer; M = CO, SO2; R6 = alkyl, cycloalkyl, aryl, heterocyclic, alkoxy, cycloalkyloxy, aryloxy, heterocycloxy, alkylamino, cycloalkylamino, arylamino, heterocyclic amino; Z1, 2 = N, CR9; R9 = H, alkyl, cycloalkyl, alkenyl, aryl, heterocyclic]. The method involves exposing the material, color-developing, and desilverizing to obtain the filter having a blue, green, and red pixel pattern. The filter contains

the coupler. The filter with light transmittance, excellent heat and light fastness, and thin film thickness is manufd. using the material.

IT 223734-74-5P

(Ag halide photog. material for
color filter contg. red or magenta coupler)

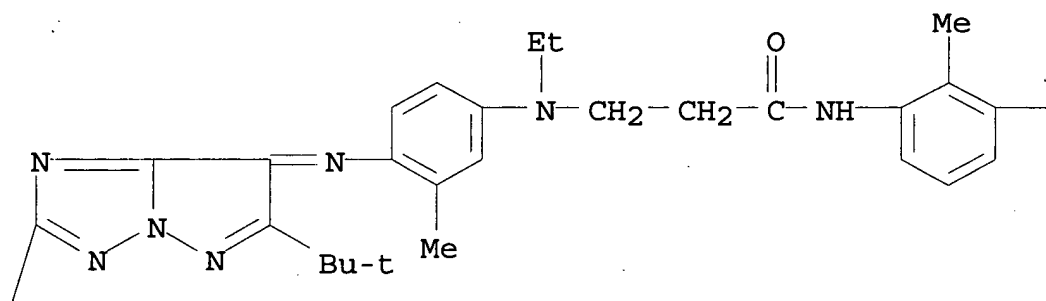
RN 223734-74-5 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
5-[[3-[[3-[[4-[[2-[4-(acetylamino)phenyl]-6-(1,1-dimethylethyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-7-ylidene]amino]-3-methylphenyl]ethylamino]-1-oxopropyl]amino]-2-methylbenzoyl]oxy]-6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)

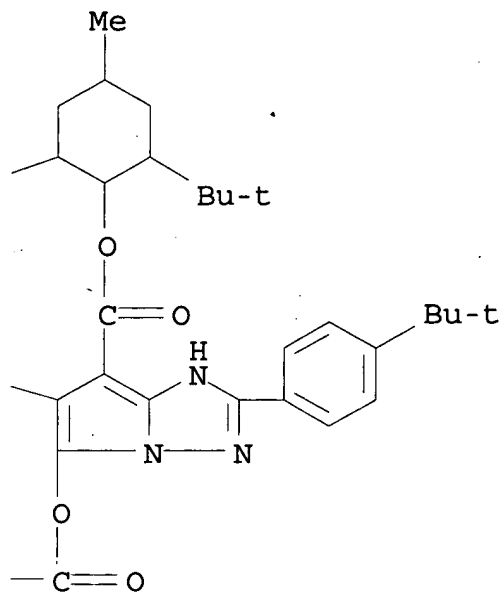
PAGE 1-A

t-Bu

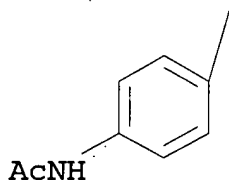
NC



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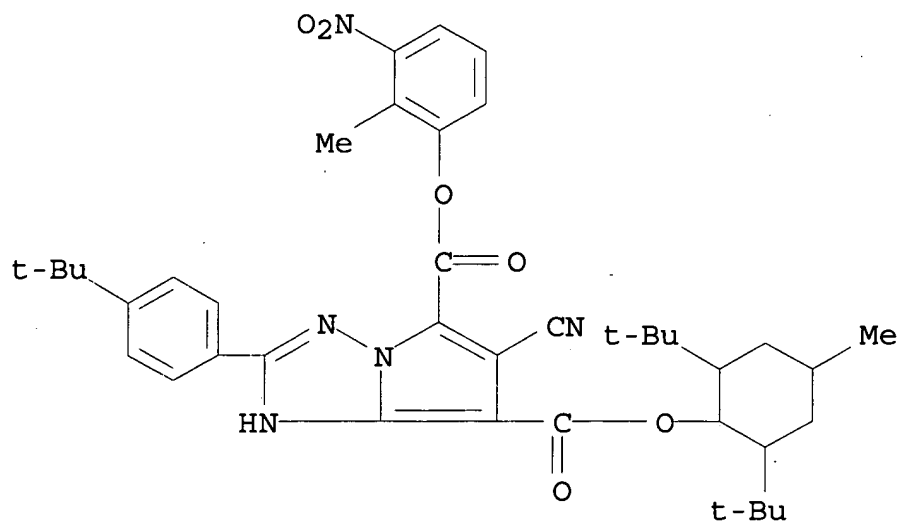
PAGE 2-A



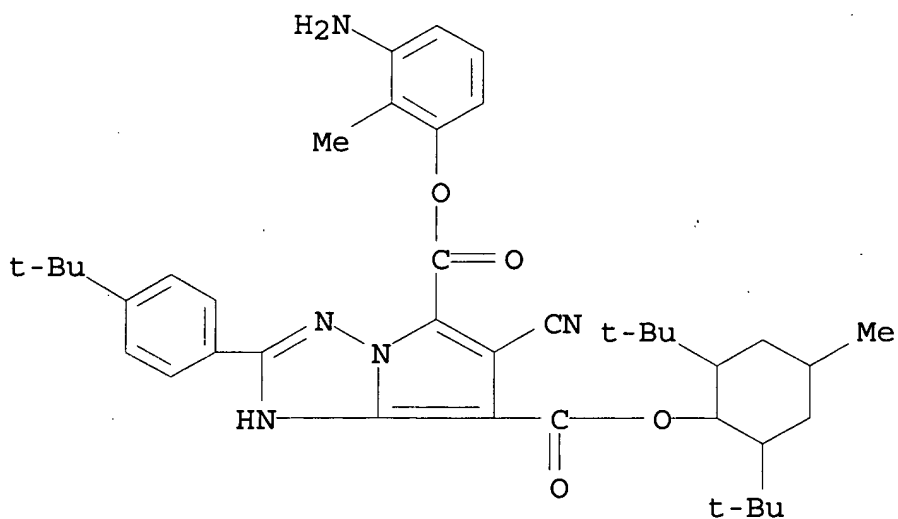
IT 223734-69-8P 223734-70-1P
 (Ag halide photog. material for
 color filter contg. red or magenta coupler)

RN 223734-69-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-5,7-dicarboxylic acid,
 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-, 7-[2,6-bis(1,1-
 dimethylethyl)-4-methylcyclohexyl] 5-(2-methyl-3-nitrophenyl) ester
 (9CI) (CA INDEX NAME)



RN 223734-70-1 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-5,7-dicarboxylic acid,
 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-, 5-(3-amino-2-methylphenyl)
 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester (9CI) (CA
 INDEX NAME)

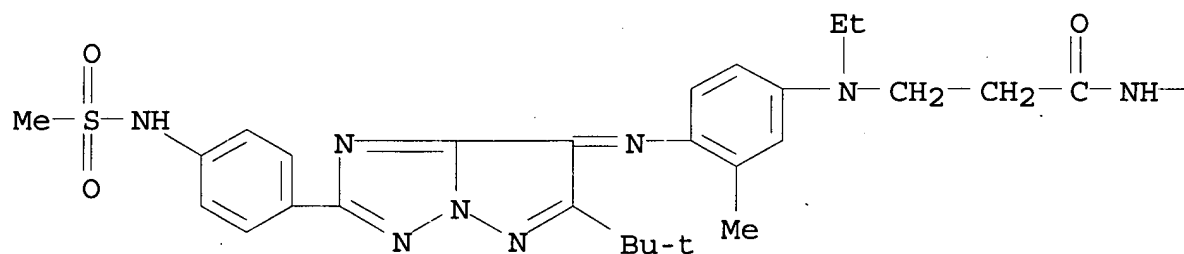


IT 223734-75-6 223734-76-7 223734-77-8
 223734-78-9 223734-79-0 223734-80-3
 223734-81-4 224045-18-5 224045-35-6
 (Ag halide photog. material for
 color filter contg. red or magenta coupler)

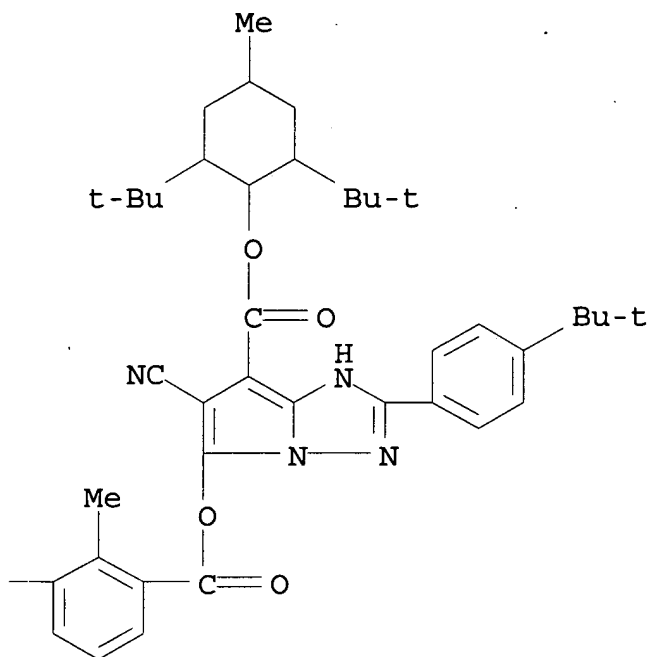
RN 223734-75-6 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,

6-cyano-5-[[3-[[3-[[4-[[6-(1,1-dimethylethyl)-2-[4-
 [(methylsulfonyl)amino]phenyl]-7H-pyrazolo[1,5-b][1,2,4]triazol-7-
 ylidene]amino]-3-methylphenyl]ethylamino]-1-oxopropyl]amino]-2-
 methylbenzoyl]oxy]-2-[4-(1,1-dimethylethyl)phenyl]-,
 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
 NAME)

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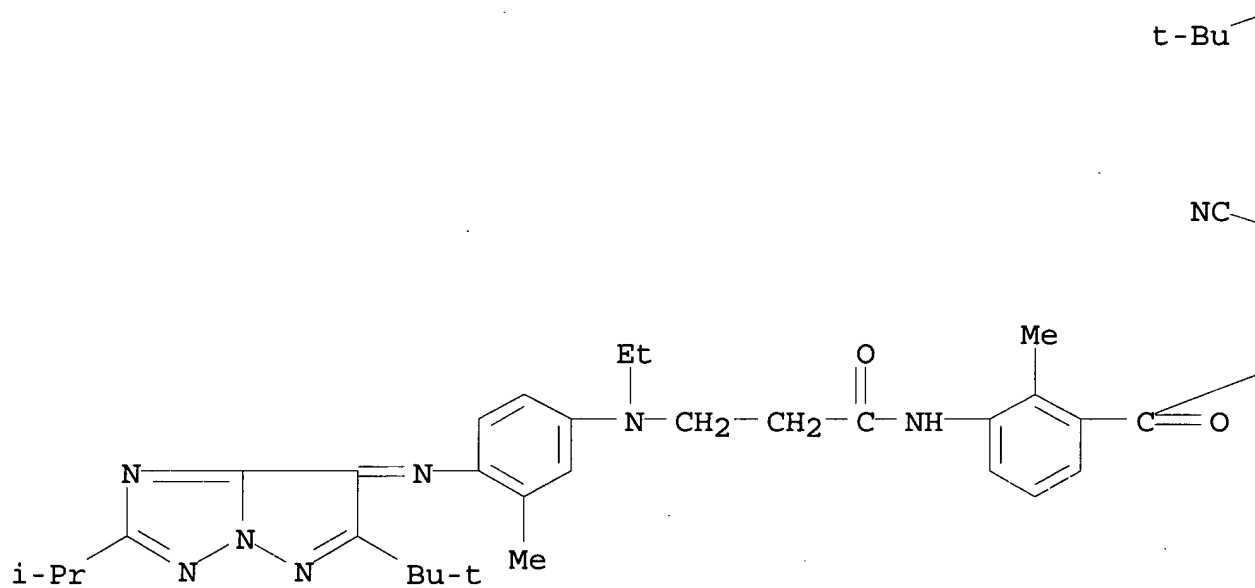


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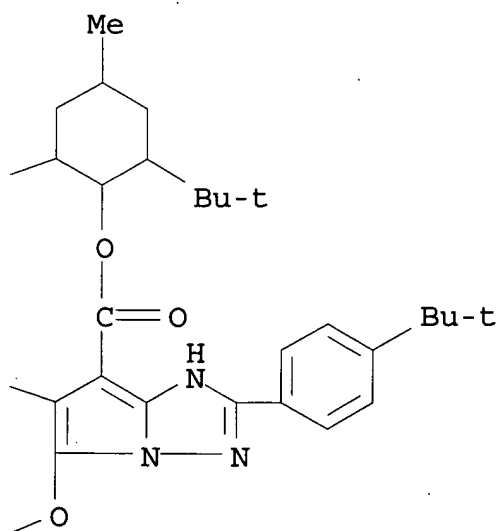


RN 223734-76-7 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-5-[[3-[[3-[[4-[[6-(1,1-dimethylethyl)-2-(1-methylethyl)-7H-
 pyrazolo[1,5-b][1,2,4]triazol-7-ylidene]amino]-3-
 methylphenyl]ethylamino]-1-oxopropyl]amino]-2-methylbenzoyl]oxy]-2-
 [4-(1,1-dimethylethyl)phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-
 methylcyclohexyl ester (9CI) (CA INDEX NAME)

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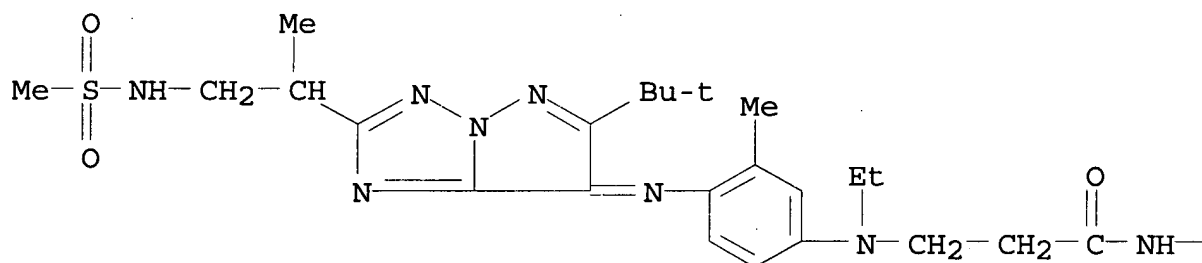


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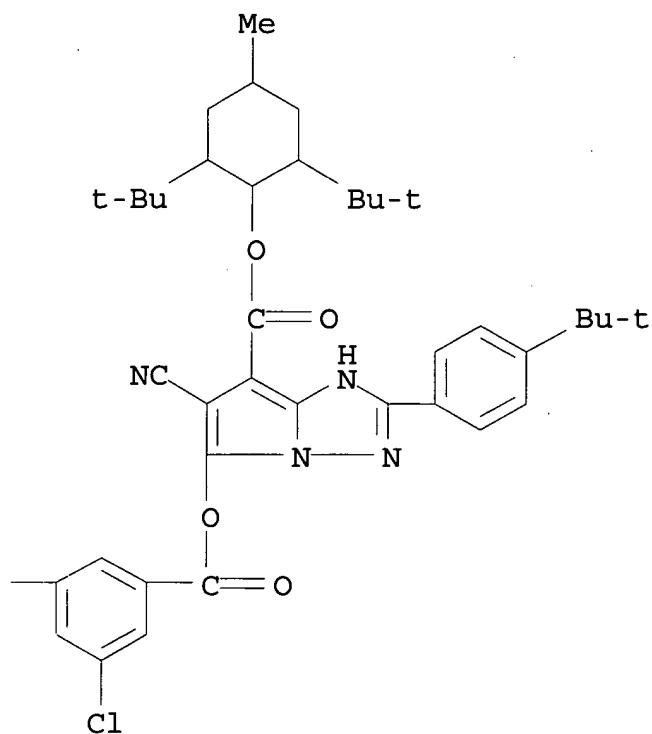


RN 223734-77-8 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[3-chloro-5-[[3-[[4-[[6-(1,1-dimethylethyl)-2-[1-methyl-2-
 [(methylsulfonyl)amino]ethyl]-7H-pyrazolo[1,5-b][1,2,4]triazol-7-
 ylidene]amino]-3-methylphenyl]ethylamino]-1-
 oxopropyl]amino]benzoyl]oxy]-6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-
 , 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA
 INDEX NAME)

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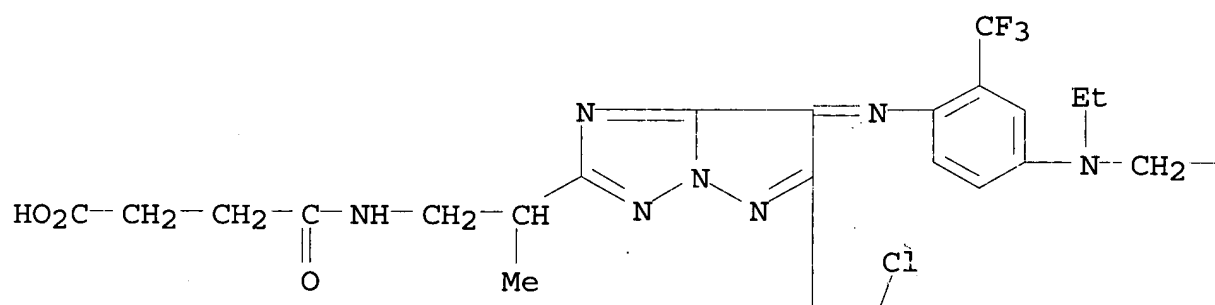


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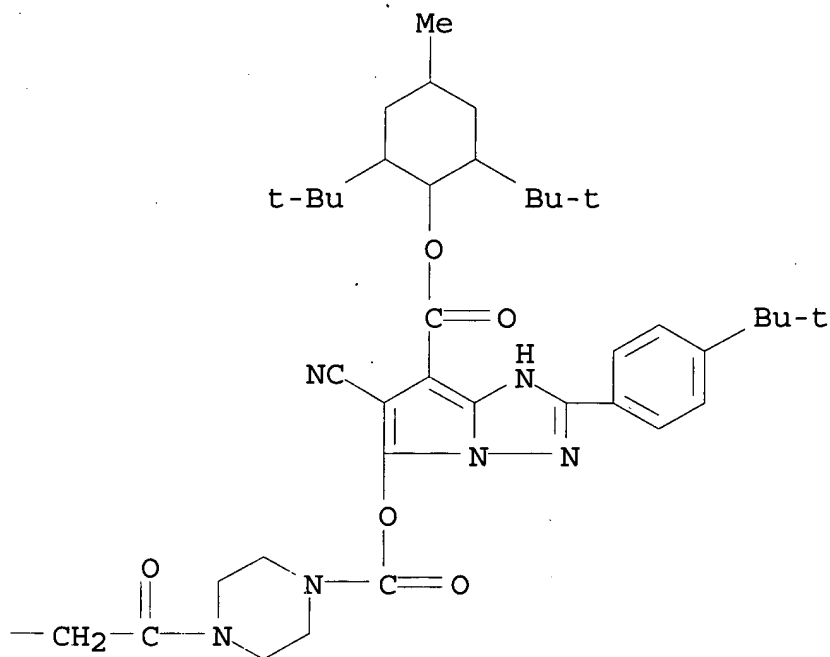


RN 223734-78-9 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[[4-[3-[[4-[[2-[2-[(3-carboxy-1-oxopropyl)amino]-1-methylethyl]-6-(2-chlorophenyl)-7H-pyrazolo[1,5-b][1,2,4]triazol-7-ylidene]amino]-3-(trifluoromethyl)phenyl]ethylamino]-1-oxopropyl]-1-piperazinyl]carbonyl]oxy]-6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-, 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester (9CI) (CA INDEX NAME)

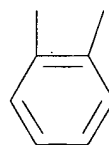
PAGE 1-A



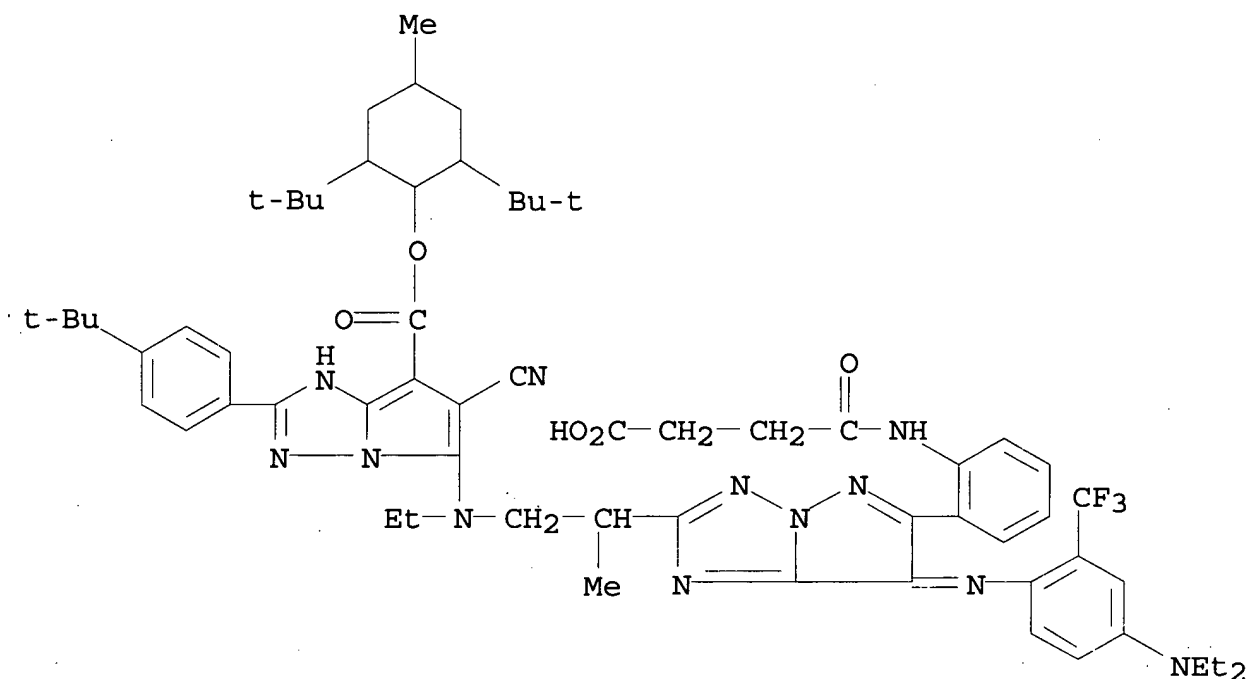
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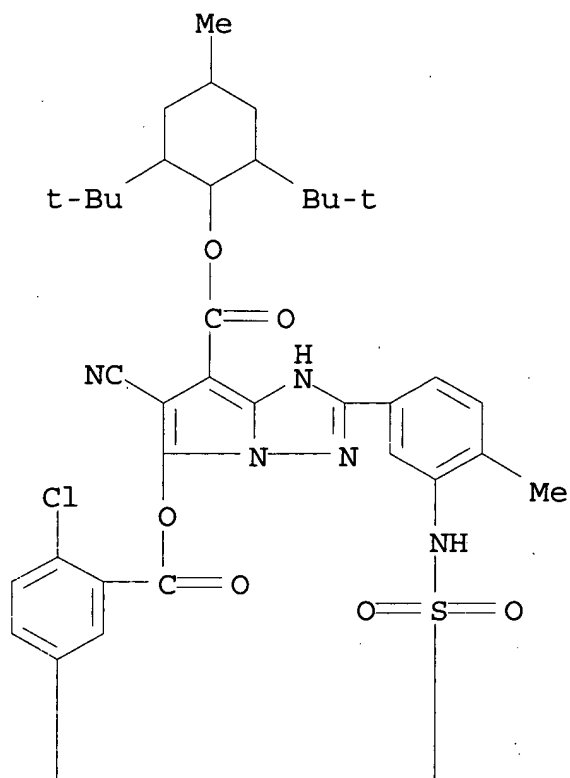


RN 223734-79-0 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[2-[6-[2-[(3-carboxy-1-oxopropyl)amino]phenyl]-7-[[4-(diethylamino)-2-(trifluoromethyl)phenyl]imino]-7H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]ethylamino]-6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-, 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester (9CI) (CA INDEX NAME)

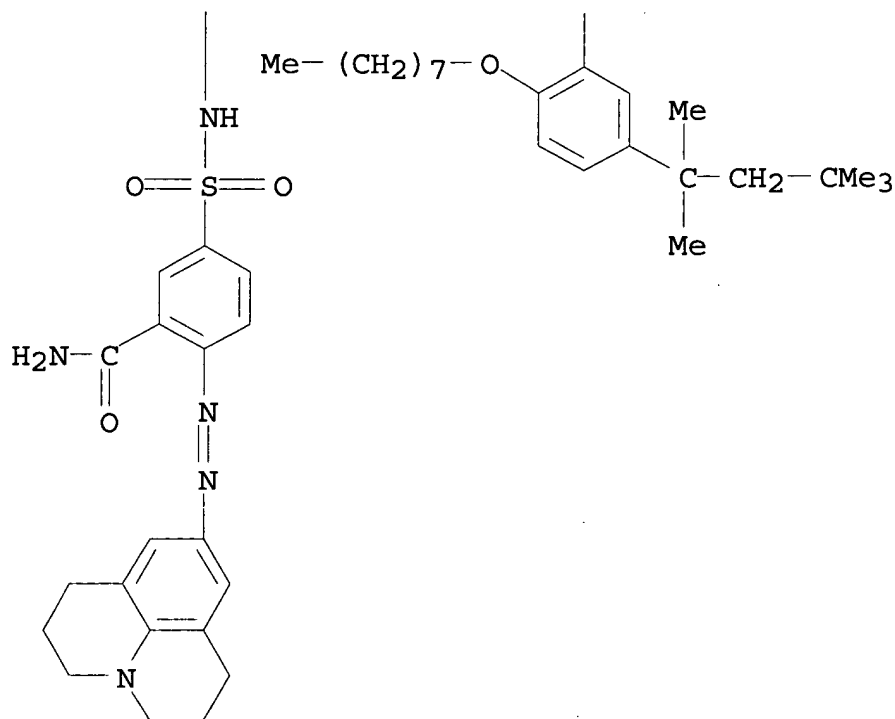


RN 223734-80-3 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[5-[[[3-(aminocarbonyl)-4-[(2,3,6,7-tetrahydro-1H,5H-
 benzo[ij]quinolizin-9-yl)azo]phenyl]sulfonyl]amino]-2-
 chlorobenzoyl]oxy]-6-cyano-2-[4-methyl-3-[[[2-(octyloxy)-5-(1,1,3,3-
 tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-,
 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
 NAME)

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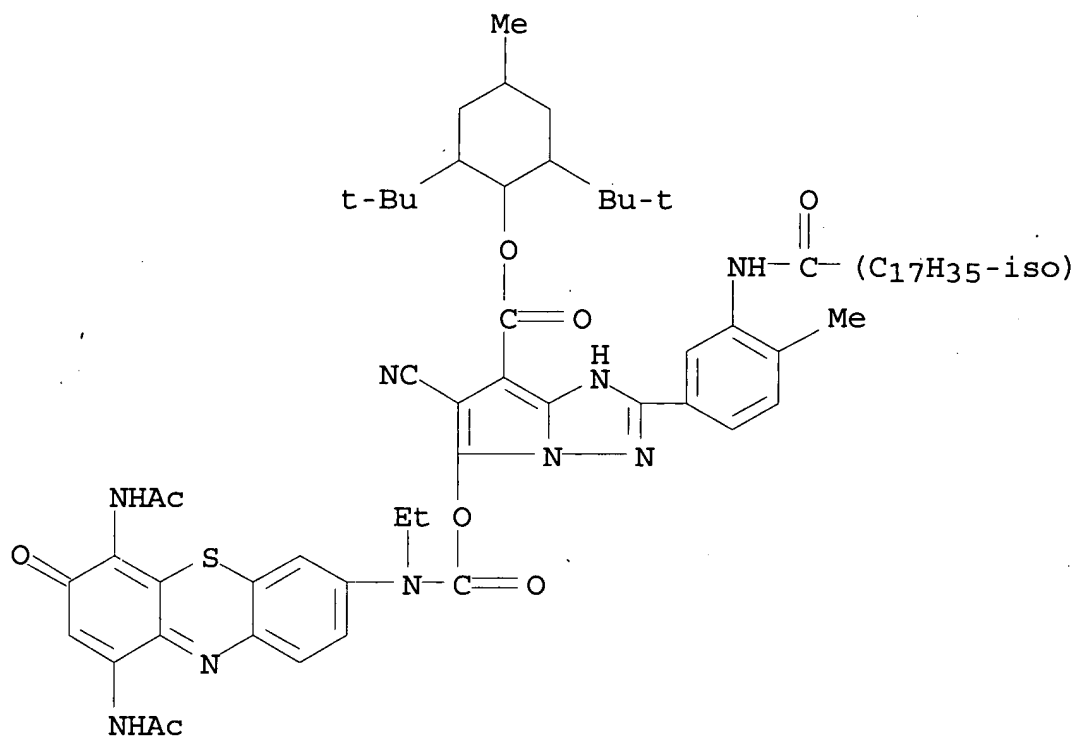


RN 223734-81-4 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-(2-benzothiazolylazo)-2-[3-[[[7-[[[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl]oxy]carbonyl]-6-cyano-2-[4-methyl-3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrrolo[1,2-b][1,2,4]triazol-5-yl]oxy]carbonyl]methylamino]phenyl]-6-cyano-, 2-carboxyethyl ester (9CI) (CA INDEX NAME)

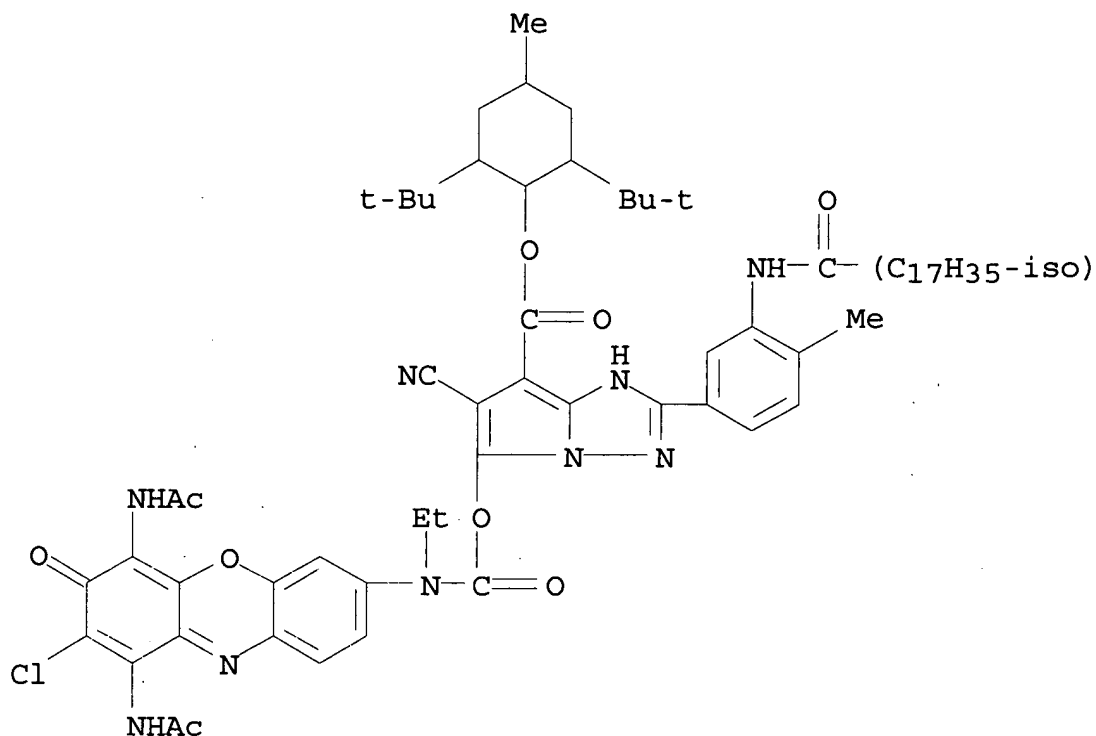
[illegible]N#CC1=CC=C(C=C1)N2C(=C(C(=N2)C(=O)OCCOC(=O)C3=CC=CC=C3)N)N

RN	224045-18-5	HCA
CN	1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 5-[[[1,4-bis(acetylamino)-3-oxo-3H-phenothiazin-7-	

yl]ethylamino]carbonyl]oxy]-6-cyano-2-[4-methyl-3-[(1-oxoisooctadecyl)amino]phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 224045-35-6 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[[1,4-bis(acetylamino)-2-chloro-3-oxo-3H-phenoxazin-7-yl]ethylamino]carbonyl]oxy]-6-cyano-2-[4-methyl-3-[(1-oxoisooctadecyl)amino]phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



- IC ICM G02B005-20
ICS G02B005-22; G03C007-20; G03C007-333; G03C007-34; G03C007-38;
G03C007-407
- CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST **photog** material color filter magenta coupler; red coupler
color filter photo material
- IT Optical filters
Photographic films
(Ag halide photog. material for
color filter contg. red or magenta coupler)
- IT 223734-74-5P
(Ag halide photog. material for
color filter contg. red or magenta coupler)
- IT 35675-46-8 73164-51-9 194419-31-3 223734-71-2
(Ag halide photog. material for
color filter contg. red or magenta coupler)
- IT 223734-69-8P 223734-70-1P 223734-72-3P
(Ag halide photog. material for
color filter contg. red or magenta coupler)
- IT 223734-73-4 223734-75-6 223734-76-7
223734-77-8 223734-78-9 223734-79-0
223734-80-3 223734-81-4 224045-18-5

224045-35-6

(Ag halide photog. material for
color filter contg. red or magenta coupler)

L67 ANSWER 90 OF 152 HCA COPYRIGHT 2005 ACS on STN

130:73788 Heat-developable **photographic image**

formation. Nakamura, Takashi; Ishikawa, Shunichi (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 10319553 A2

19981204 Heisei, 40 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1997-147110 19970521.

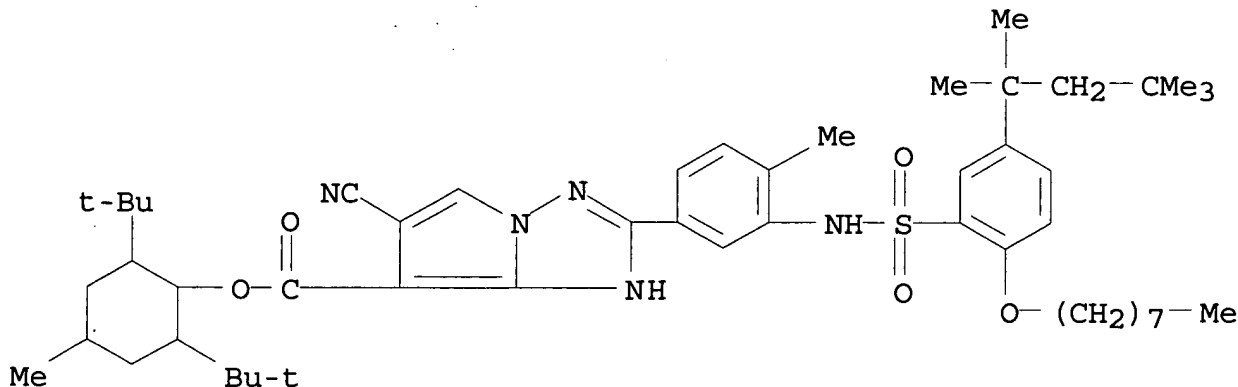
AB A photosensitive material, possessing .gtoreq.1 photosensitive layer contg. tabular **Ag halide** grains, color developing agents, couplers, and binders on a transparent support, is imagewise exposed and 5-30 cc/m2 of water which may contain a base and/or its precursor is applied to the material which has been heated previously to 60-100.degree., followed by heat-treating the material at 60-100.degree. for 5-60 s in such a state that .gtoreq.90% of the applied water is maintained to form an **image** based on non-diffusive dyes formed by coupling reaction of the oxidized color developing agents and the couplers on the material. High quality color **images** with good graininess and sharpness are obtained quickly by a simple heat development process and the material shows good storage stability.

IT 180200-98-0

(cyan coupler; heat-developable **photog.** film contg.
silver halide, developer, and coupler)

RN 180200-98-0 HCA

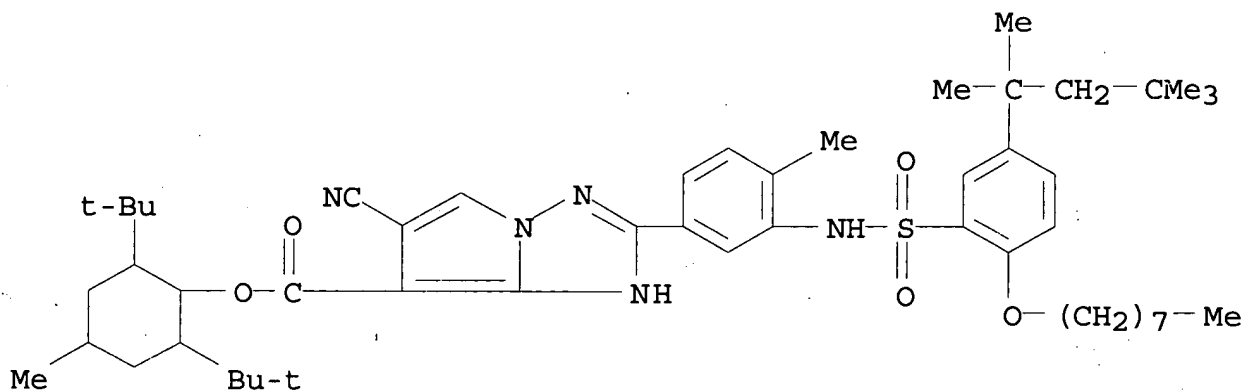
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[4-methyl-3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-,
2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-407

- ICS G03C001-42; G03C007-392; G03C007-42; G03C011-00
- CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
- ST heat developable **photog** film developer coupler; base water
heat developable **photog** film
- IT **Photographic films**
(heat-developable; heat-developable **photog.** film contg.
silver halide, developer, and coupler)
- IT 180200-98-0
(cyan coupler; heat-developable **photog.** film contg.
silver halide, developer, and coupler)
- IT 196105-81-4 197859-22-6
(developer; heat-developable **photog.** film contg.
silver halide, developer, and coupler)
- IT 75-59-2, Tetramethylammonium hydroxide 6145-42-2,
N,N,-Dimethylguanidine
(heat-developable **photog.** film treated with base-contg.
water)
- IT 217961-21-2
(magenta coupler; heat-developable **photog.** film contg.
silver halide, developer, and coupler)
- IT 211624-18-9
(yellow coupler; heat-developable **photog.** film contg.
silver halide, developer, and coupler)
- L67 ANSWER 100 OF 152 HCA COPYRIGHT 2005 ACS on STN.
- 129:10562 **Image** formation method for **silver**
halide photography using heat development.
Taguchi, Toshiki; Takeuchi, Kiyoshi (Fuji Photo Film Co., Ltd.,
Japan). Jpn. Kokai Tokkyo Koho JP 10097043 A2 19980414
Heisei, 87 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
1996-269344 19960919.
- AB In the process comprising the steps of developing a photosensitive
material contg. a photosensitive emulsion layer by heat at the
presence of a base or a base precursor upon putting together with a
processing sheet coated with a binder and then peeling off the
processing sheet to form an **image** on the heat-sensitive
material and/or the processing sheet, the photo-sensitive material
comprises a coupler, which reacts with an acidic material from the
light-sensitive emulsion layer to contribute to an **image**
formation, or a coupler, which reacts with an acid material in the
developer not contributing to an **image** formation, in the
light-sensitive emulsion layer. The method provides good
image discrimination and reprodn. of the gradation.
- IT 180200-98-0
(coupler for heat-developable **silver halide**
photog.)
- RN 180200-98-0 HCA

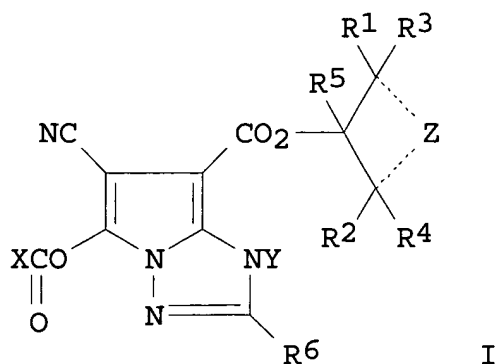
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-methyl-3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C008-40
ICS G03C008-40; G03C008-50
CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST **image** formation method heat development; **silver halide** photosensitive **photog**; coupler development **silver halide photog**
IT **Photographic couplers**
 Photography
 (Image formation method for **silver halide photog.** using heat development)
IT **Photographic films**
 (heat-developable; **Image** formation method for **silver halide photog.** using heat development)
IT 152828-26-7 180200-98-0 207352-63-4 207352-65-6
207352-67-8 207352-68-9
 (coupler for heat-developable **silver halide photog.**)

L67 ANSWER 110 OF 152 HCA COPYRIGHT 2005 ACS on STN
128:68434 **Silver halide color photographic**
material with improved color reproduction quality and storage stability. Takada, Kiyoto (Fuji Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09288336 A2 19971104 Heisei, 41 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-101555 19960423.

GI



AB The material has .gtoreq.1 photosensitive **Ag halide** emulsion layer contg. .gtoreq.1 coupler I [R1-5 = H, substituent; Z = (substituted) nonmetal at. group required to form ring; X = heterocycle; (substituted) amino, aryl; Y = H, substituent; R6 = substituent] and **AgI**-free Ag(Br,Cl) or **AgCl** particles (**AgCl** content .gtoreq.98 mol%) sensitized with a Au compd. The material shows improved color reprodn. quality and storage stability.

IT 7783-90-6, **Silver chloride**, uses
(content-controlled; **silver halide** color
photog. material contg. cyan coupler for improved color
reprodn. quality)

RN 7783-90-6 HCA

CN Silver chloride (AgCl) (9CI) (CA INDEX NAME)

Ag-Cl

IT 178743-91-4 184947-09-9 200049-62-3

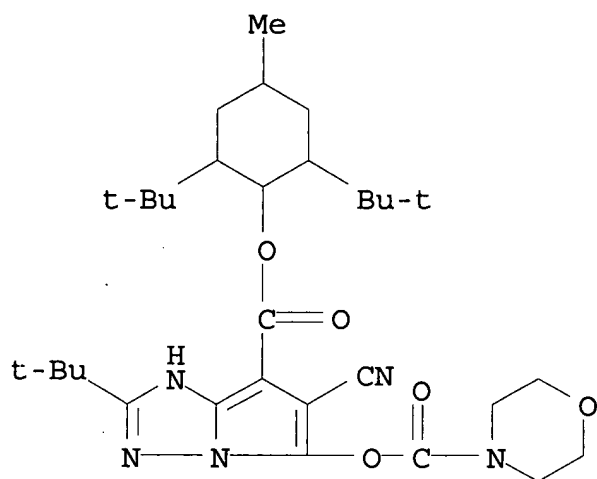
200049-63-4 200049-64-5 200049-65-6

(**silver halide** color **photog.**

material contg. cyan coupler for improved color reprodn. quality)

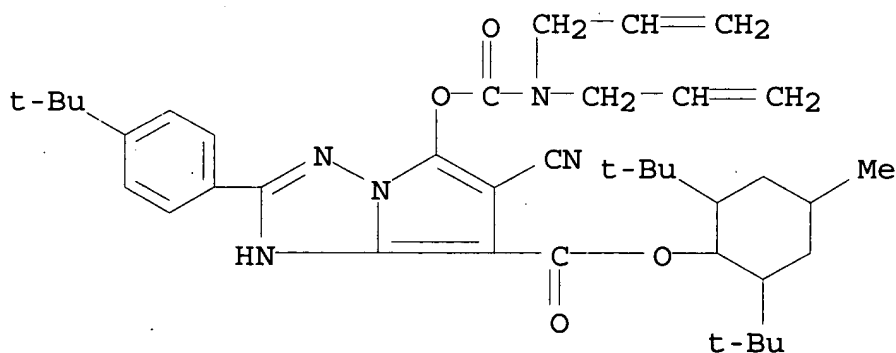
RN 178743-91-4 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-(1,1-dimethylethyl)-5-[(4-morpholinylcarbonyl)oxy]-,
2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
NAME)



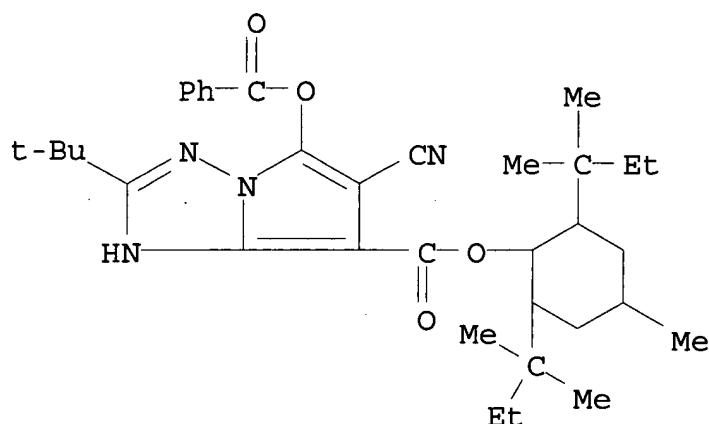
RN 184947-09-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[[di-2-
propenylamino)carbonyl]oxy]-, 2,6-bis(1,1-dimethylethyl)-4-
methylcyclohexyl ester (9CI) (CA INDEX NAME)



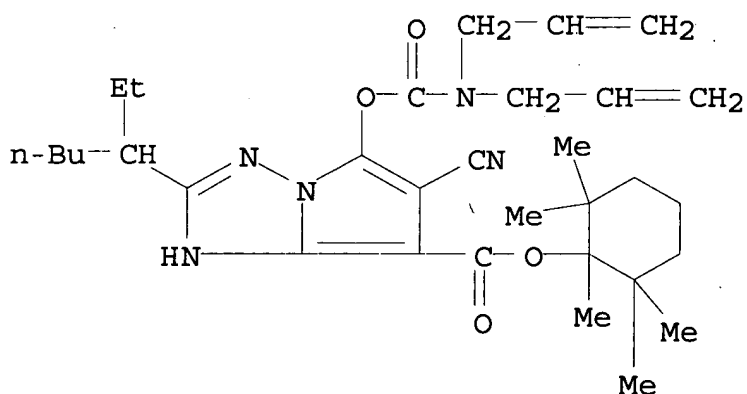
RN 200049-62-3 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
5-(benzoyloxy)-6-cyano-2-(1,1-dimethylethyl)-, 2,6-bis(1,1-
dimethylpropyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 200049-63-4 HCA

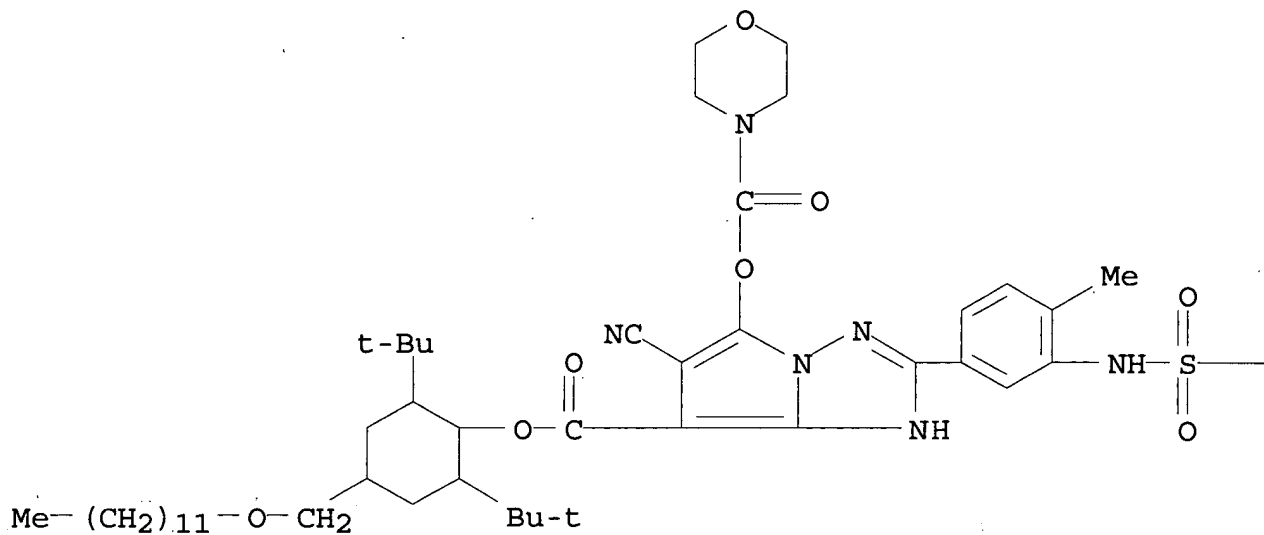
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-5-[[[(di-2-propenylamino)carbonyl]oxy]-2-(1-ethylpentyl)-,
1,2,2,6,6-pentamethylcyclohexyl ester (9CI) (CA INDEX NAME)



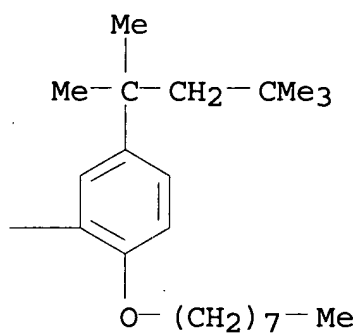
RN 200049-64-5 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[4-methyl-3-[[[2-(octyloxy)-5-(1,1,3,3-
tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-5-[(4-
morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-
[(dodecyloxy)methyl]cyclohexyl ester (9CI) (CA INDEX NAME)

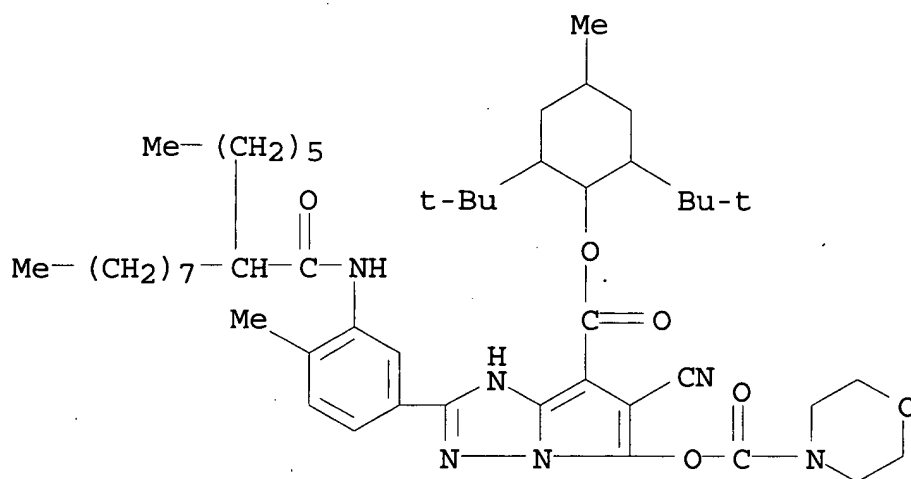
PAGE 1-A



PAGE 1-B



RN 200049-65-6 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-[3-[(2-hexyl-1-oxodecyl)amino]-4-methylphenyl]-5-[(4-
 morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-
 methylcyclohexyl ester (9CI) (CA INDEX NAME)



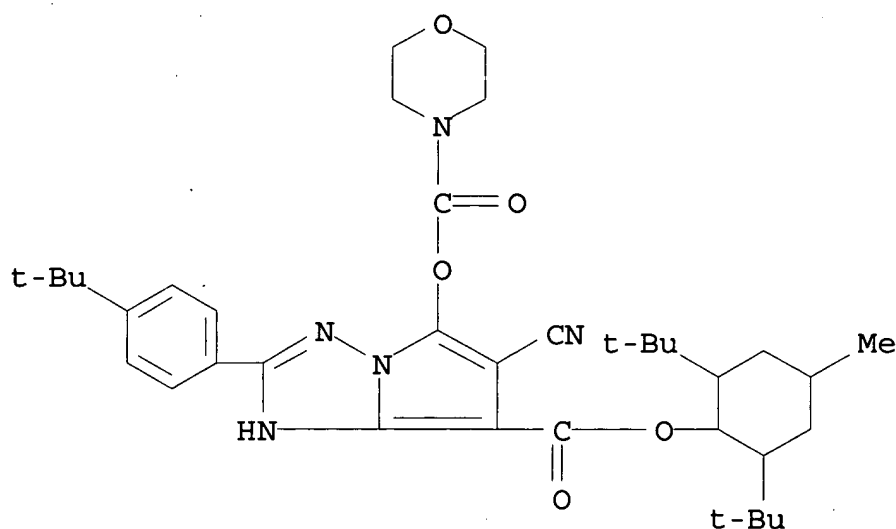
IT 188745-52-0P

(silver halide color photog.

material contg. cyan coupler for improved color reprodn. quality)

RN 188745-52-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[(4-morpholinylcarbonyl)oxy]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38

ICS G03C001-035; G03C001-09; G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)

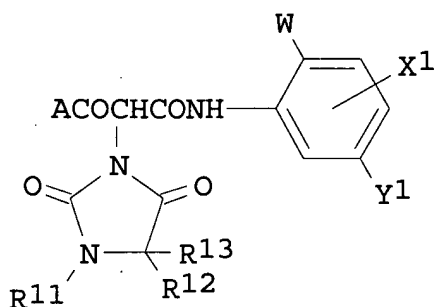
- ST **photog** material cyan coupler; gold sensitizer
photog material **silver halide**
- IT **Photographic** sensitizers
(gold compd.; **silver halide** color
photog. material contg. cyan coupler for improved color
reprodn. quality)
- IT Cyan couplers
Photographic films
(**silver halide** color **photog.**
material contg. cyan coupler for improved color reprodn. quality)
- IT 7783-90-6, **Silver chloride**, uses
(content-controlled; **silver halide** color
photog. material contg. cyan coupler for improved color
reprodn. quality)
- IT 16903-35-8, Chloroauric acid
(sensitizer; **silver halide** color
photog. material contg. cyan coupler for improved color
reprodn. quality)
- IT 178743-91-4 184947-09-9 200049-62-3
200049-63-4 200049-64-5 200049-65-6
(**silver halide** color **photog.**
material contg. cyan coupler for improved color reprodn. quality)
- IT 188745-52-0P
(**silver halide** color **photog.**
material contg. cyan coupler for improved color reprodn. quality)
- IT 190436-30-7P 194419-30-2P 194419-31-3P 200049-66-7P
(**silver halide** color **photog.**
material contg. cyan coupler for improved color reprodn. quality)
- IT 105-34-0, Methyl cyanoacetate 15159-40-7, 4-Morpholinecarbonyl
chloride 163119-16-2, 2,6-Di-tert-butyl-4-methylcyclohexanol
194419-32-4
(**silver halide** color **photog.**
material contg. cyan coupler for improved color reprodn. quality)

L67 ANSWER 120 OF 152 HCA COPYRIGHT 2005 ACS on STN

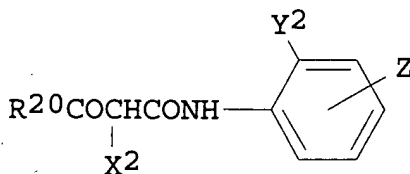
127:72946 **Silver halide** color **photographic**

material with improved fog resistance. Makuta, Toshiyuki (Fuji
Photo Film Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09127660 A2
19970516 Heisei, 85 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1995-309749 19951106.

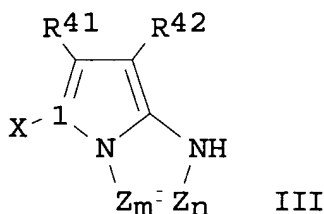
GI



I



II



III

AB The title material contains a yellow coupler(s) I (A = tert-alkyl, tert-cycloalkyl, aliph. heterocyclyl; aryl, indolyl; W = halo, alkoxy, aryloxy, alkyl, acyloxy, dialkylamino; X1 = H, substituent; Y1 = acylamino, alkoxy, sulfoneamido, carbamoyl, sulfamoyl, alkoxy carbonyl, sulfonyl; R11 = H, alkyl, cycloalkyl, acyl, sulfonyl; R12, R13 = H, alkyl, alkoxy, sulfonyl) and/or II (R20 = tert-alkyl, tert-cycloalkyl, aliph. heterocyclyl, aryl, indolyl; X2 = group capable of leaving upon reaction with color developer; Y2 = halo, alkoxy, aryloxy, acyloxy, dialkylamino, alkyl; Z = NHCOR21, NHCOOR22, NHCOL1OCOR23, NHPOR24R25, NHCOL2SR26, NHCOL3COOR27, NHCOL4NR28COR29, NHCOL5CONR30R31; R21 = alkenyl, haloalkyl, haloalkenyl; R22 = alkyl, cycloalkyl, alkenyl, aryl; L1 = alkylene; R23 = alkyl, cycloalkyl, alkenyl, aryl; R24, R25 = alkyl, cycloalkyl, aryl, alkoxy, aryloxy, alkylamino, dialkylamino, anilino; L2 = alkylene; R26 = alkyl, aryl; R27 = alkyl, aryl; L4 = alkylene; R28 = H, alkyl, aryl; R29 = alkyl, aryl; L5 = alkylene; R30, R31 = H, alkyl, aryl) and a cyan coupler(s) III (Zm, Zn = CR43, N; R41, R42 = electron withdrawing group; R43 = substituent; X = H, group capable of leaving upon coupling reaction with oxidized color developer).

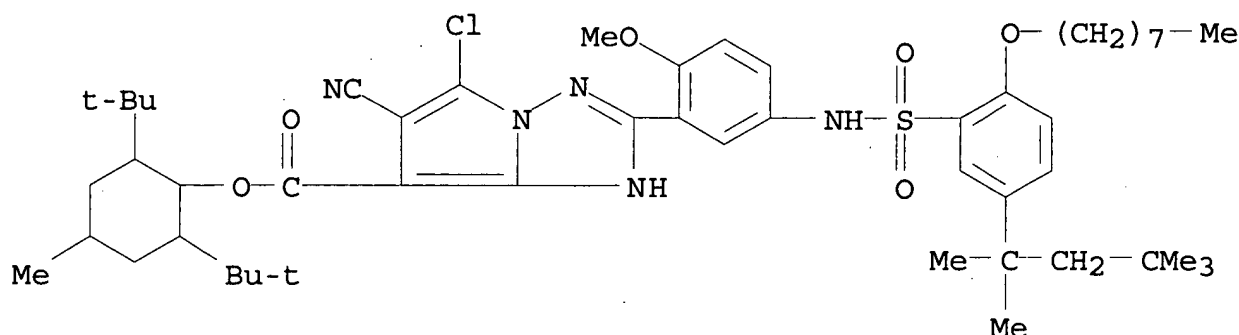
IT 165178-13-2 184773-62-4 188745-52-0
191274-16-5

(photog. cyan coupler for improving fog resistance)

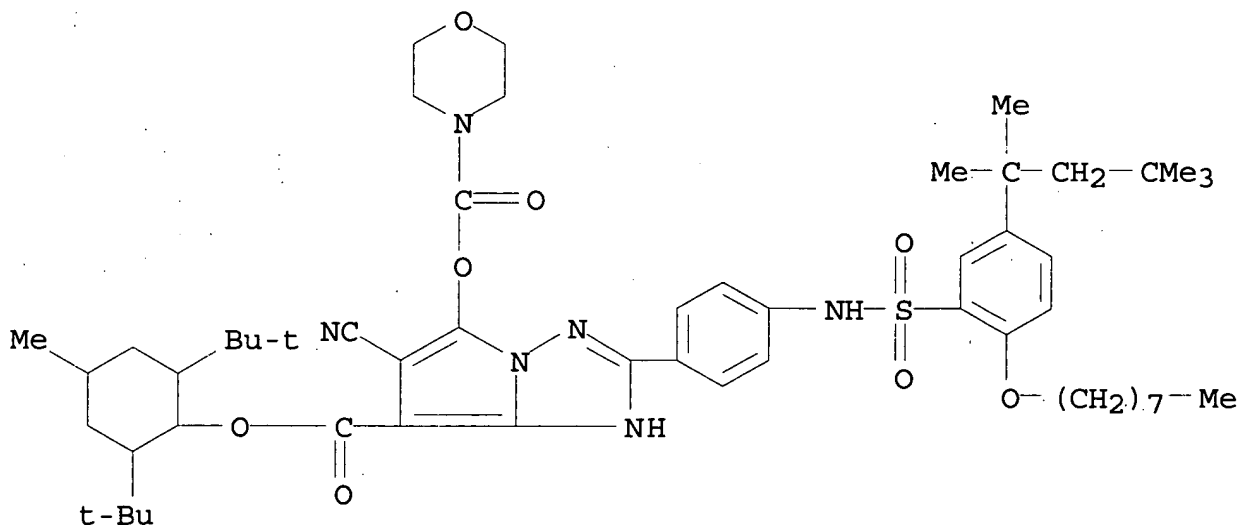
RN 165178-13-2 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
5-chloro-6-cyano-2-[2-methoxy-5-[[2-(octyloxy)-5-(1,1,3,3-

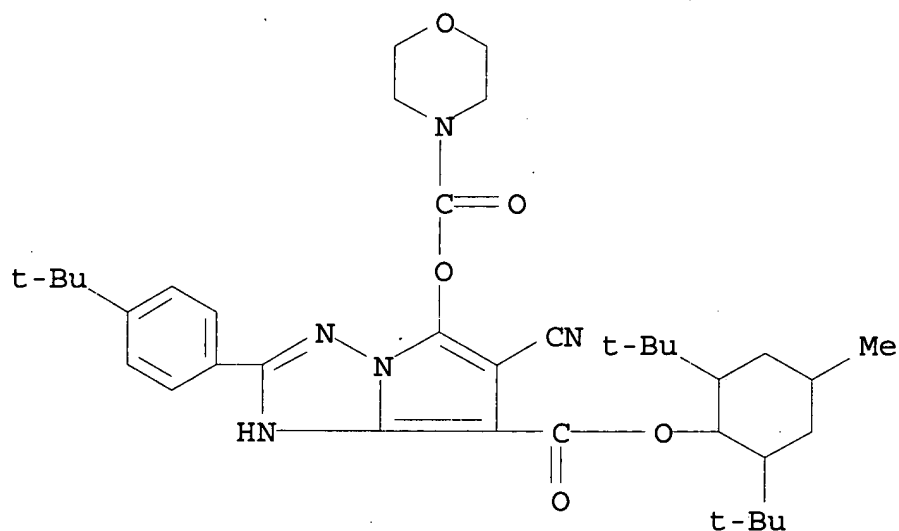
tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-,
2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
NAME)



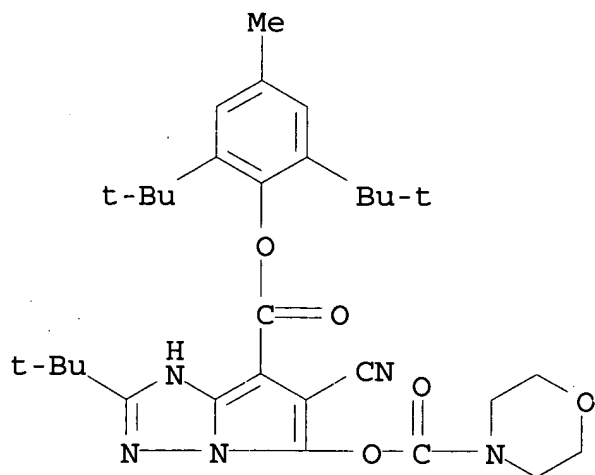
RN 184773-62-4 HCA
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-5-[(4-morpholinylcarbonyl)oxy]-2-[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-,
2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
NAME)



RN 188745-52-0 HCA
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[(4-morpholinylcarbonyl)oxy]-,
2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 191274-16-5 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-(1,1-dimethylethyl)-5-[(4-morpholinylcarbonyl)oxy]-,
 2,6-bis(1,1-dimethylethyl)-4-methylphenyl ester (9CI) (CA INDEX
 NAME)



IC ICM G03C007-36
 ICS G03C007-00; G03C007-38
 CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)
 ST **silver halide** color **photog** material;
 cyan coupler yellow acetanilide pyrroloazole
 IT **Photographic** paper

Yellow couplers

(silver halide color photog.

material with improved fog resistance)

IT 165178-13-2 184773-62-4 188745-52-0
191274-16-5

(photog. cyan coupler for improving fog resistance)

IT 176218-64-7 176218-72-7 176533-54-3 178873-41-1 181213-60-5
184483-61-2 187102-27-8 187102-28-9 191274-09-6

(photog. yellow coupler for improving fog resistance)

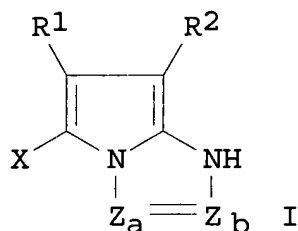
L67 ANSWER 130 OF 152 HCA COPYRIGHT 2005 ACS on STN

125:181143 Silver halide color photographic

material containing pyrrolotriazole cyan coupler. Matsuoka,
Mitsuyuki; Shimada, Yasuhiro; Ito, Takayuki; Ozawa, Takashi (Fuji
Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 08146576 A2
19960607 Heisei, 62 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1994-309417 19941121.

GI



AB The photog. material contains a coupler I [Za = CR₃, N; Zb = N, CR₃; R₁, R₂ = electron-attractive group having Hammett's .sigma.p const. 0.2-1.0; R₃ = H, substituent; X = H, halo, alkoxy, heterocycloxy, acyloxy, alkoxy carbonyloxy, aryloxy carbonyloxy, carbamoyloxy; .gtoreq.1 of R and X = LC(:O) (NR₄)mOH or LC(:O) (NR₅)nNHR₆; R₅ = hydrocarbyl; R₄, R₆ = H, R₅; n, m = 0, 1]. The photog. material may be a reversal photosensitive material. The photog. material shows good color coupling property and color developability and gives a color image with lightfastness.

IT 180639-09-2 180639-10-5 180639-11-6
180639-12-7 180803-49-0

(Ag halide color photog. material

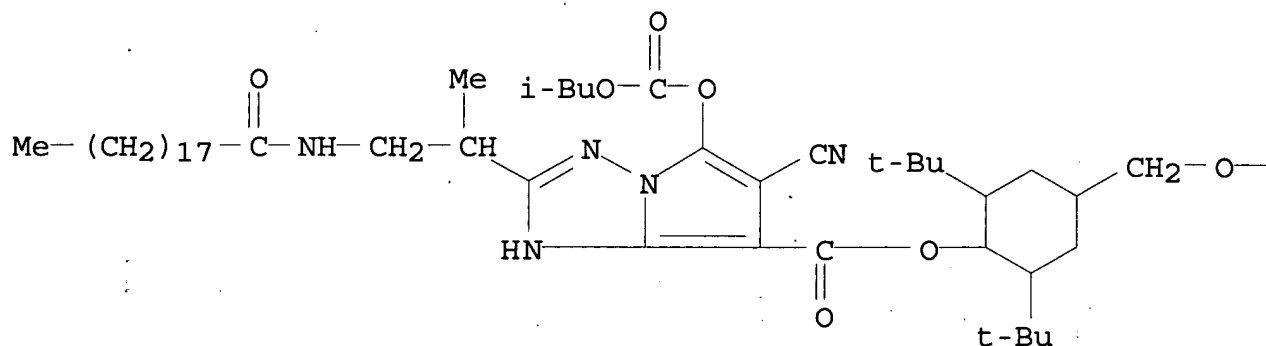
contg. pyrrolotriazole cyan coupler)

RN 180639-09-2 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-[1-methyl-2-[(1-oxononadecyl)amino]ethyl]-5-[[[(2-methylpropoxy)carbonyl]oxy]-, 4-[(carboxymethoxy)methyl]-2,6-bis(1,1-

dimethylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

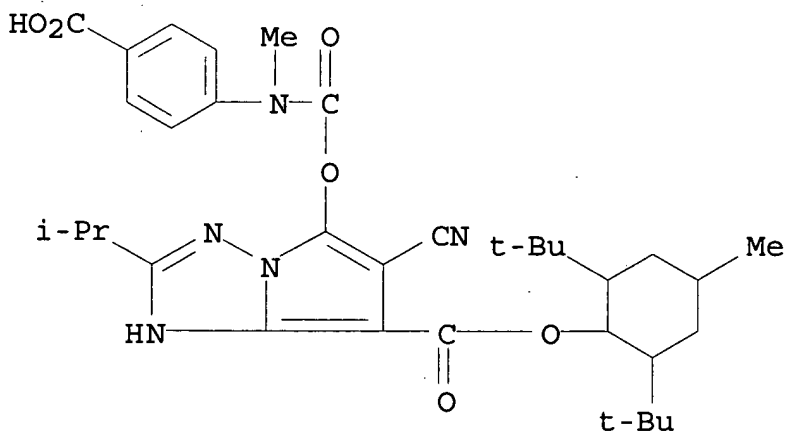
PAGE 1-A



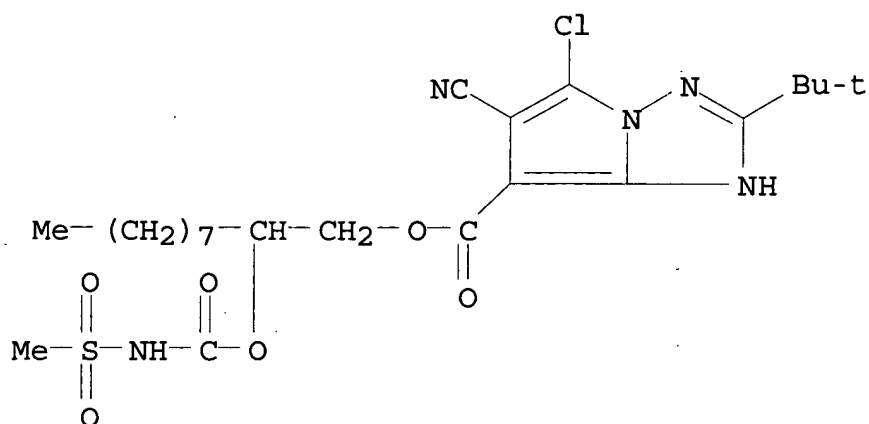
PAGE 1-B

—CH₂—CO₂H

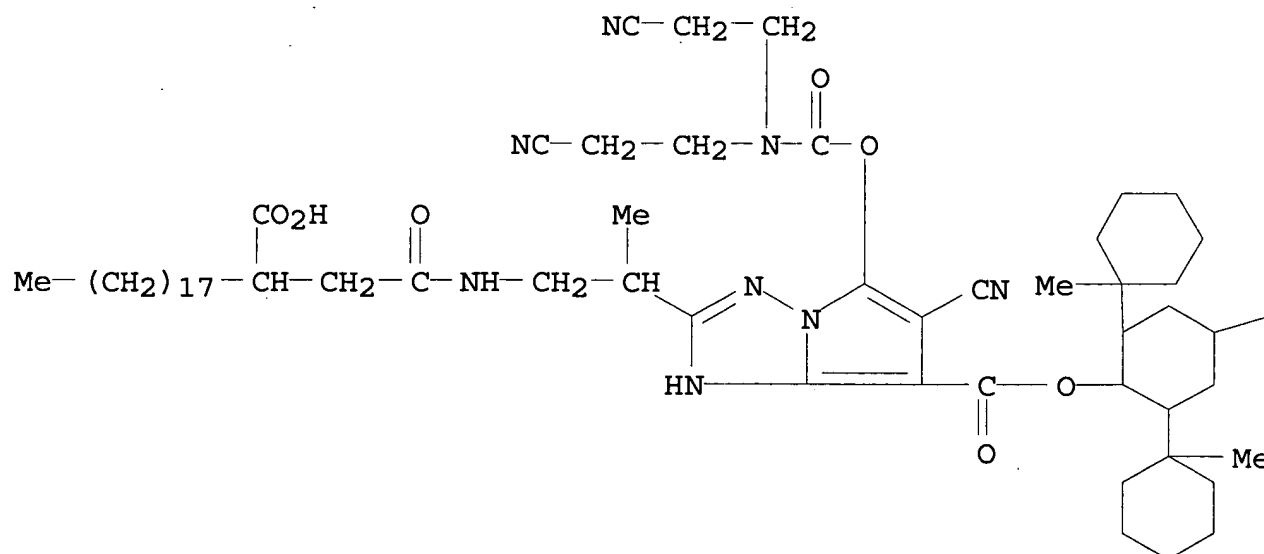
RN 180639-10-5 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[[(4-carboxyphenyl)methylamino]carbonyl]oxy]-6-cyano-2-(1-
 methylethyl)-, 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl]
 ester (9CI) (CA INDEX NAME)



RN 180639-11-6 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-chloro-6-cyano-2-(1,1-dimethylethyl)-, 2-
 [[[methylsulfonyl]amino]carbonyl]oxy]decyl ester (9CI) (CA INDEX
 NAME)



RN 180639-12-7 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-[[[bis(2-cyanoethyl)amino]carbonyl]oxy]-2-[2-[(3-carboxy-1-oxoheneicosyl)amino]-1-methylethyl]-6-cyano-, 1,1'',5'-
 trimethyl[1,1':3',1''-tercyclohexan]-2'-yl ester (9CI) (CA INDEX
 NAME)

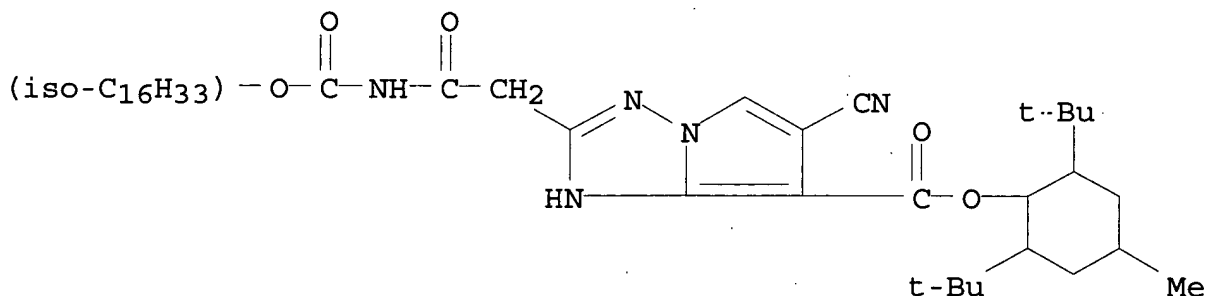


PAGE 1-A

PAGE 1-B

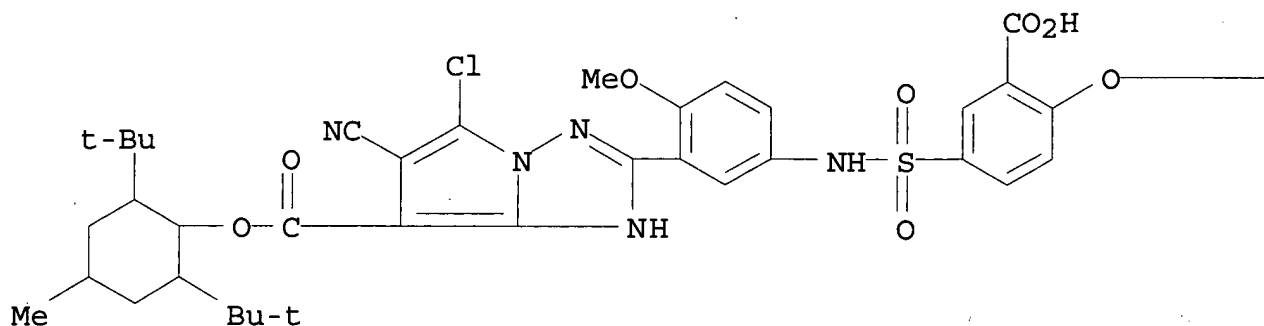
— Me

RN 180803-49-0 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 6-cyano-2-[2-[[[(isohexadecyloxy)carbonyl]amino]-2-oxoethyl]-,
 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
 NAME)



IT 180639-07-0P 180639-08-1P
 (Ag halide color photog. material
 contg. pyrrolotriazole cyan coupler)
 RN 180639-07-0 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[5-[[[3-carboxy-4-(octyloxy)phenyl]sulfonyl]amino]-2-
 methoxyphenyl]-5-chloro-6-cyano-, 7-[2,6-bis(1,1-dimethylethyl)-4-
 methylcyclohexyl] ester (9CI) (CA INDEX NAME)

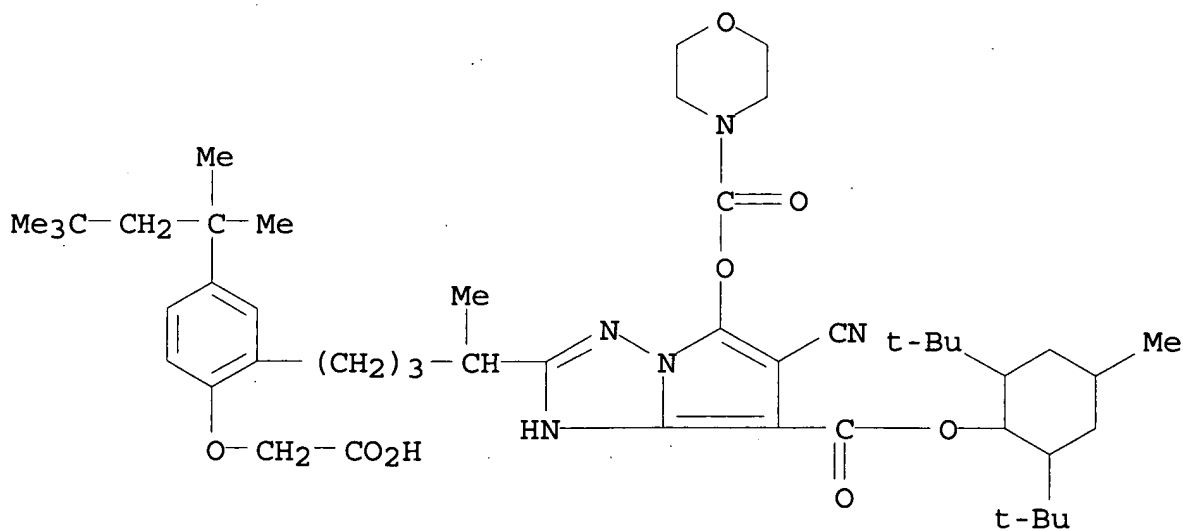
PAGE 1-A



PAGE 1-B

— (CH₂)₇—Me

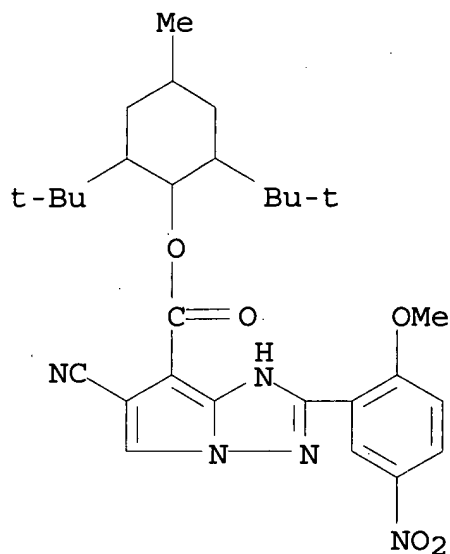
RN 180639-08-1 HCA
 CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 2-[4-[2-(carboxymethoxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]-1-methylbutyl]-6-cyano-5-[(4-morpholinylcarbonyl)oxy]-,
 7-[2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl] ester (9CI) (CA INDEX NAME)



IT 165178-15-4P 172872-83-2P 172872-84-3P
 (in pyrrolotriazole photog. cyan coupler prepn.)

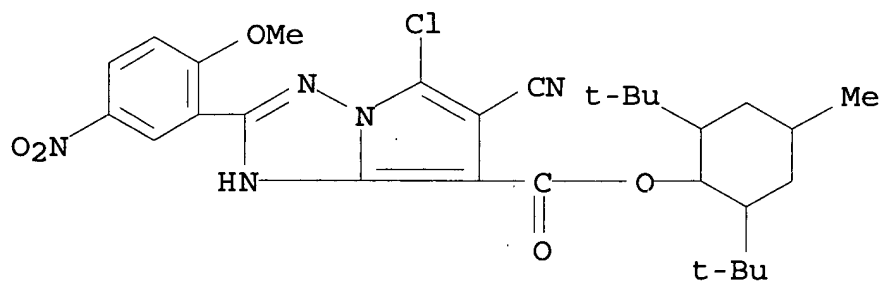
RN 165178-15-4 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-(2-methoxy-5-nitrophenyl)-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



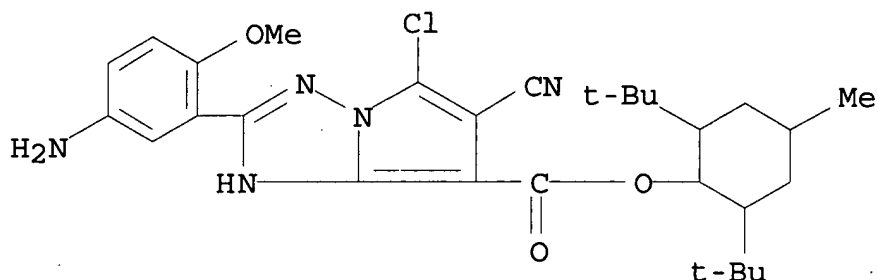
RN 172872-83-2 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
5-chloro-6-cyano-2-(2-methoxy-5-nitrophenyl)-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 172872-84-3 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-(5-amino-2-methoxyphenyl)-5-chloro-6-cyano-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)

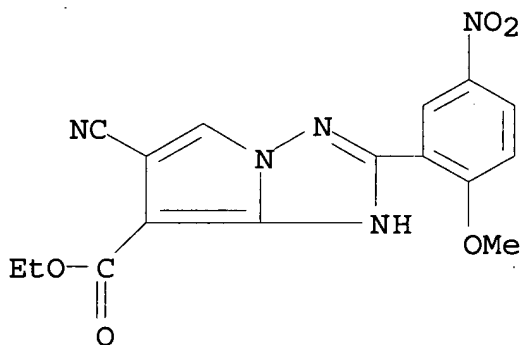


IT 180639-13-8

(in pyrrolo-triazole photog. cyan coupler prepn.)

RN 180639-13-8 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-(2-methoxy-5-nitrophenyl)-, ethyl ester (9CI) (CA INDEX
NAME)



IC ICM G03C007-38

ICS G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST pyrrolo triazole cyan photog coupler

IT Photographic couplers

(cyan, Ag halide color photog.

material contg. pyrrolo-triazole cyan coupler)

IT 180639-09-2 180639-10-5 180639-11-6

180639-12-7 180803-49-0

(Ag halide color photog. material

contg. pyrrolo-triazole cyan coupler)

IT 180639-07-0P 180639-08-1P

(Ag halide color photog. material

contg. pyrrolo-triazole cyan coupler)

IT 165178-15-4P 172872-83-2P 172872-84-3P

180639-17-2P 180639-19-4P 180639-20-7P

180639-21-8P

180639-22-9P

(in pyrrolotriazole **photog.** cyan coupler prepn.)

IT 83-01-2 163119-16-2 **180639-13-8** 180639-15-0
180639-16-1 180639-18-3

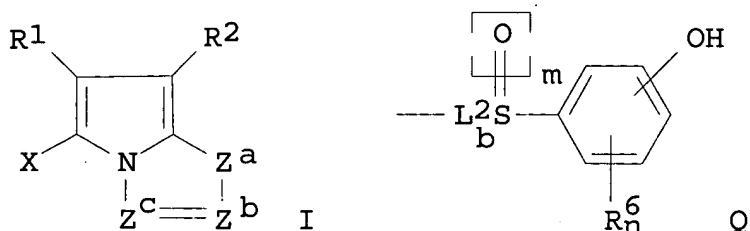
(in pyrrolotriazole **photog.** cyan coupler prepn.)

L67 ANSWER 140 OF 152 HCA COPYRIGHT 2005 ACS on STN

124:131410 **Silver halide color photographic**

material containing pyrroloazole cyan coupler. Ito, Takayuki;
Suzuki, Makoto; Yoneyama, Hiroyuki (Fuji Photo Film Co Ltd, Japan).
Jpn. Kokai Tokkyo Koho JP 07248594 A2 **19950926** Heisei, 45
pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-65442
19940310.

GI



AB The **photog.** material contains a pyrroloazole cyan coupler I in .gtoreq.1 layer on a support [Z^a = NH, CHR³; Z^b, Z^c = CR⁴., N.; R¹-3 = electron-withdrawing group with Hammett's substituent const. (.sigma.p) .gtoreq.0.2; sum of .sigma.p for R¹ and R² .gtoreq.0.65; R⁴ = H, substituent; X = H, leaving group by coupling reaction with oxide of arom. primary amine color developer; R¹-4 and/or X is L¹aSO₂NHR⁵ or Q; L¹, L² = divalent linkage group; a, b = 0, 1; R⁵ = H, acyl, sulfonyl; m = 1, 2; R⁶ = halo, alkyl, aryl, OH, alkoxy, aryloxy, acylamino, sulfonamino, carbamoyl, sulfamoyl, ureido, alkoxy carbonyl, alkoxy carbonylamino, sulfonyl, alkylthio, CN, NO₂, CO₂H; n = 0-4]. The material gives high-d. **images** with good lightfastness.

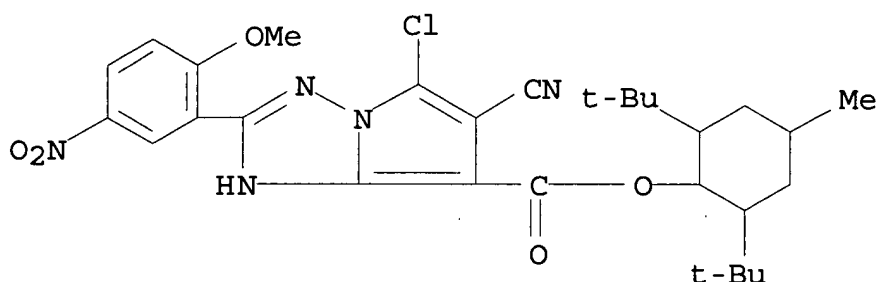
IT **172872-83-2P**

(prepn. and chlorination of; **silver halide**

photog. material contg. pyrroloazole cyan coupler with improved lightfastness)

RN 172872-83-2 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
5-chloro-6-cyano-2-(2-methoxy-5-nitrophenyl)-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



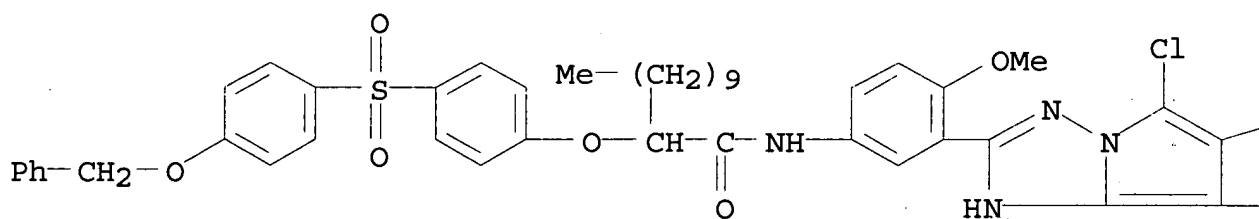
IT 172872-85-4P

(prepn. and debenzylation of; **silver halide**
photog. material contg. pyrroloazole cyan coupler with
 improved lightfastness)

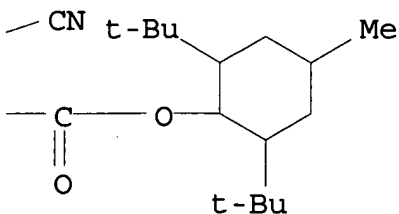
RN 172872-85-4 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-chloro-6-cyano-2-[2-methoxy-5-[[1-oxo-2-[4-[[4-(phenylmethoxy)phenyl]sulfonyl]phenoxy]dodecyl]amino]phenyl]-,
 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX
 NAME)

PAGE 1-A



PAGE 1-B



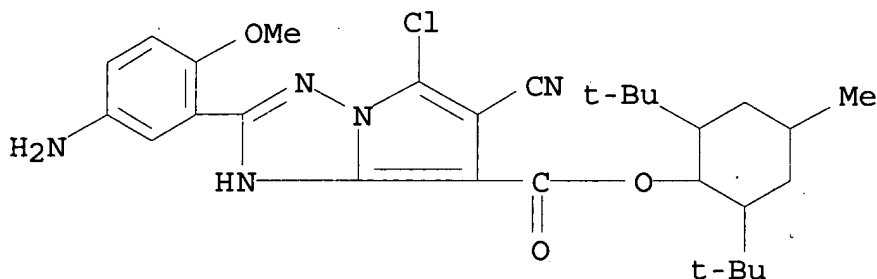
IT 172872-84-3P

(prepn. and reaction with acid chlorides; **silver**

halide photog. material contg. pyrroloazole
cyan coupler with improved lightfastness)

RN 172872-84-3 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-(5-amino-2-methoxyphenyl)-5-chloro-6-cyano-, 2,6-bis(1,1-
dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)

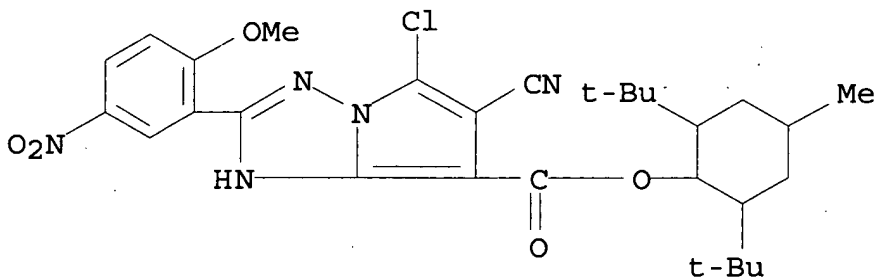


IT 172872-83-2P

(prepn. and redn. of; **silver halide**
photog. material contg. pyrroloazole cyan coupler with
improved lightfastness)

RN 172872-83-2 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
5-chloro-6-cyano-2-(2-methoxy-5-nitrophenyl)-, 2,6-bis(1,1-
dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)

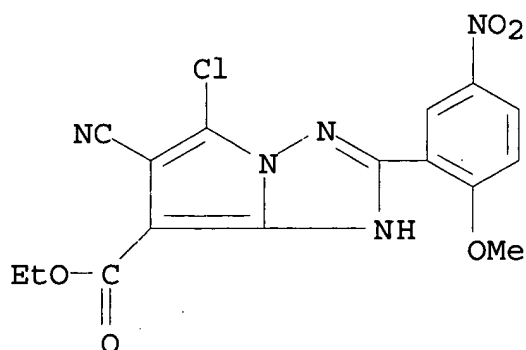


IT 172872-82-1

(reaction with butylmethylcyclohexanol; **silver**
halide photog. material contg. pyrroloazole
cyan coupler with improved lightfastness)

RN 172872-82-1 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
5-chloro-6-cyano-2-(2-methoxy-5-nitrophenyl)-, ethyl ester (9CI)
(CA INDEX NAME)



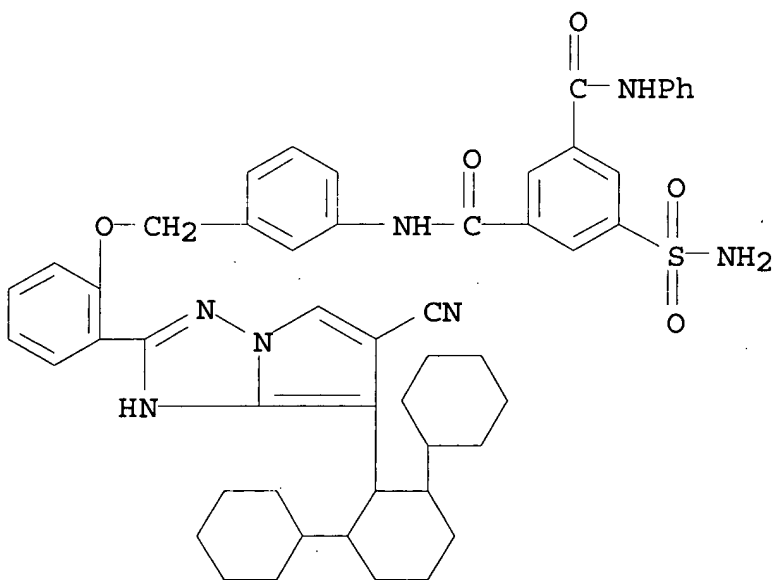
IT 172872-79-6 172872-80-9 172872-81-0

(silver halide photog. material

contg. pyrroloazole cyan coupler with improved lightfastness)

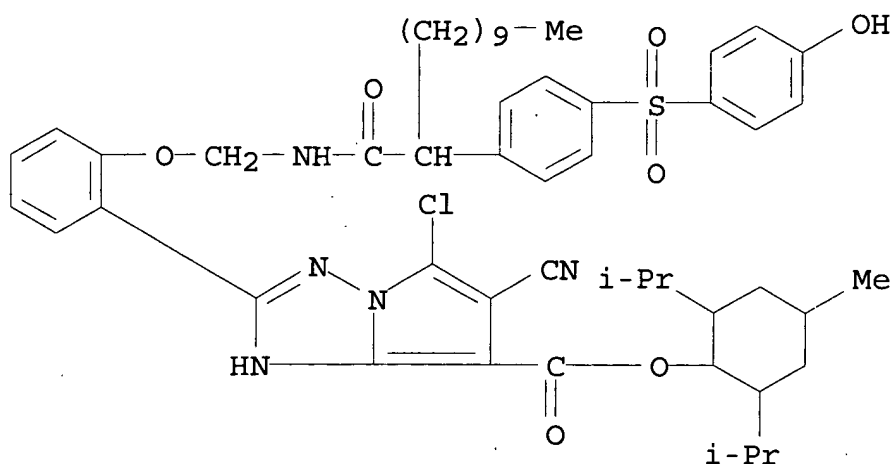
RN 172872-79-6 HCA

CN 1,3-Benzenedicarboxamide, 5-(aminosulfonyl)-N-[3-[[2-(6-cyano-7-[1,1':3',1''-tercyclohexan]-2'-yl)-1H-pyrrolo[1,2-b][1,2,4]triazol-2-yl]phenoxy]methyl]phenyl]-N'-phenyl- (9CI) (CA INDEX NAME)



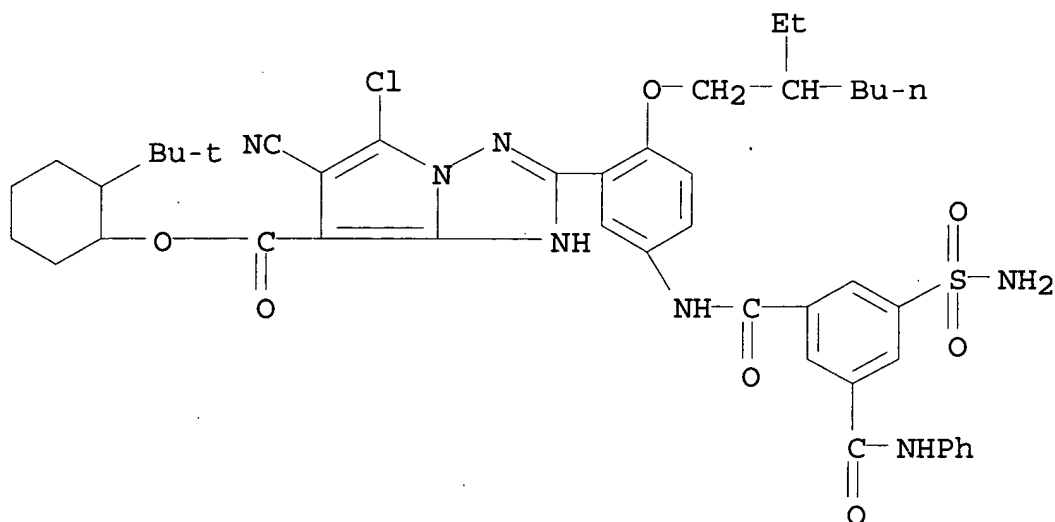
RN 172872-80-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 5-chloro-6-cyano-2-[2-[[[2-[4-[(4-hydroxyphenyl)sulfonyl]phenyl]-1-oxododecyl]amino]methoxy]phenyl]-, 4-methyl-2,6-bis(1-methylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



RN 172872-81-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[5-[[3-(aminosulfonyl)-5-[(phenylamino)carbonyl]benzoyl]amino]-2-
[(2-ethylhexyl)oxy]phenyl]-5-chloro-6-cyano-, 2-(1,1-
dimethylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)



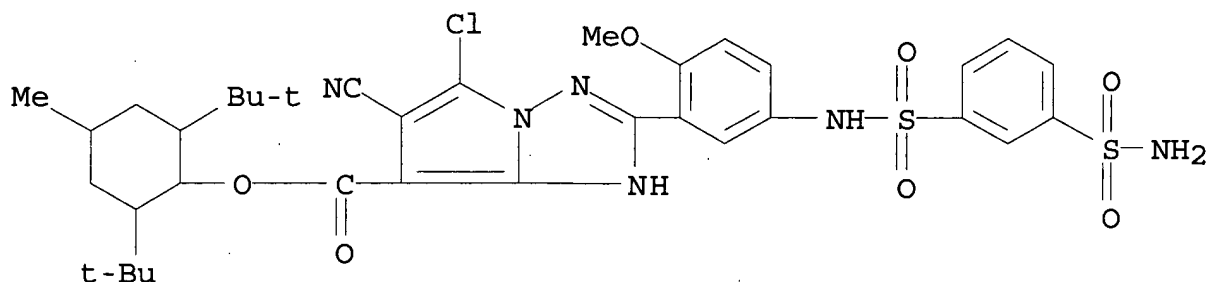
IT 172872-77-4P 172872-78-5P

(silver halide photog. material

contg. pyrroloazole cyan coupler with improved lightfastness)

RN 172872-77-4 HCA

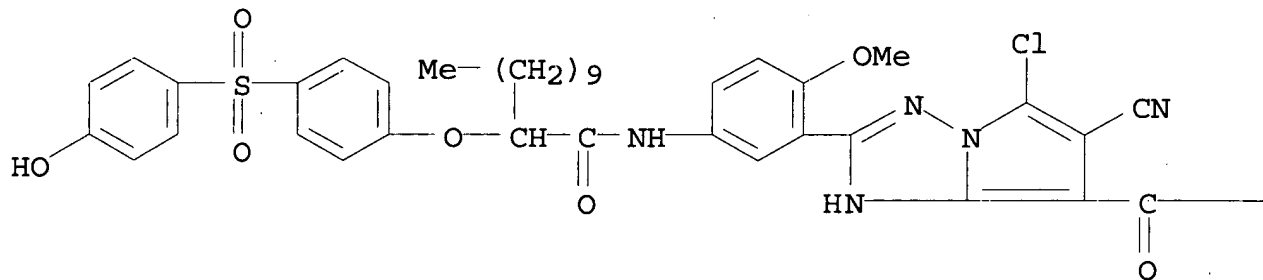
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[5-[[[3-(aminosulfonyl)phenyl]sulfonyl]amino]-2-methoxyphenyl]-5-
chloro-6-cyano-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester
(9CI) (CA INDEX NAME)



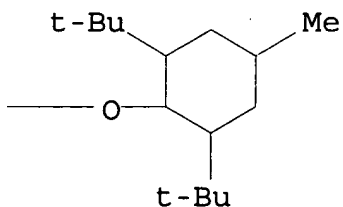
RN 172872-78-5 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
 5-chloro-6-cyano-2-[[5-[[2-[4-[(4-hydroxyphenyl)sulfonyl]phenoxy]-1-oxododecyl]amino]-2-methoxyphenyl]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)

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PAGE 1-B



IC ICM G03C007-38

ICS G03C007-00

CC 74-2 (Radiation Chemistry, Photochemistry, and
 Photographic and Other Reprographic Processes)

ST photog pyrroloazole cyan coupler light fastness

- IT **Photographic couplers**
(cyan, **silver halide photog.**
material contg. pyrroloazole cyan coupler with improved light
fastness)
- IT **172872-83-2P**
(prepn. and chlorination of; **silver halide**
photog. material contg. pyrroloazole cyan coupler with
improved lightfastness)
- IT **172872-85-4P**
(prepn. and debenzylation of; **silver halide**
photog. material contg. pyrroloazole cyan coupler with
improved lightfastness)
- IT **172872-84-3P**
(prepn. and reaction with acid chlorides; **silver**
halide photog. material contg. pyrroloazole
cyan coupler with improved lightfastness)
- IT **172872-83-2P**
(prepn. and redn. of; **silver halide**
photog. material contg. pyrroloazole cyan coupler with
improved lightfastness)
- IT **172872-82-1**
(reaction with butylmethylcyclohexanol; **silver**
halide photog. material contg. pyrroloazole
cyan coupler with improved lightfastness)
- IT 585-47-7, 1,3-Benzenedisulfonyl dichloride 87016-97-5
163119-16-2
(reaction with pyrrolotriazole deriv. coupler; **silver**
halide photog. material contg. pyrroloazole
cyan coupler with improved lightfastness)
- IT **172872-79-6 172872-80-9 172872-81-0**
(**silver halide photog.** material
contg. pyrroloazole cyan coupler with improved lightfastness)
- IT **172872-77-4P 172872-78-5P**
(**silver halide photog.** material
contg. pyrroloazole cyan coupler with improved lightfastness)

L67 ANSWER 150 OF 152 HCA COPYRIGHT 2005 ACS on STN

121:191113 **Silver halide color photographic**
material **photographic** processing. Shono, Akiko (Fuji
Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 05333494 A2
19931217 Heisei, 48 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1992-158986 19920527.

AB The title full color **photog.** material has .gtoreq.1 cyan
coupler-contg. layer(s) contg. .gtoreq.1 pyrroloazole cyan coupler
and av. **AgCl** .gtoreq.90 mol%, and contains .gtoreq.1 solid
dye. The **photog.** processing includes exposing the above
photog. material, and then finishing developing, water
rinsing and stabilizing in 4 mins. The **photog.** material

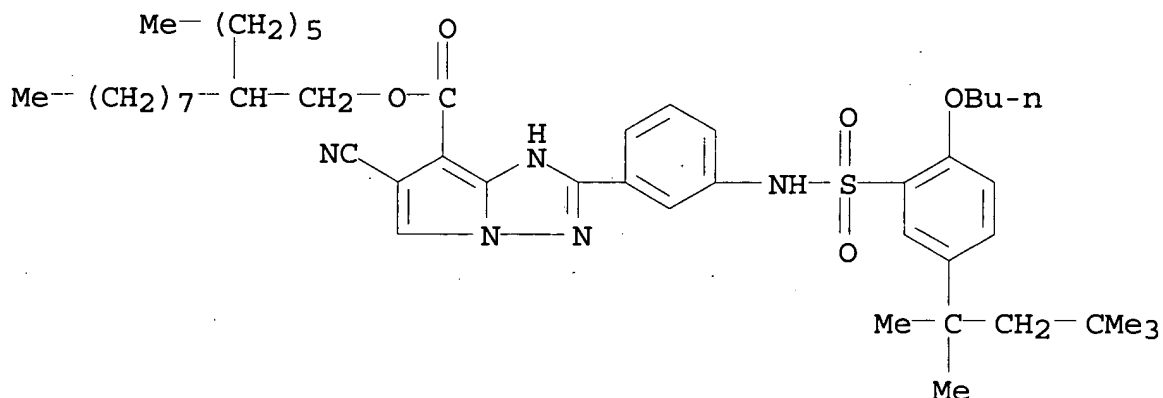
shows superior color reproducibility, sharpness, background whiteness and rapid processability.

IT 152828-31-4 154021-52-0 157941-67-8
157941-68-9

(cyan coupler, photog. material using)

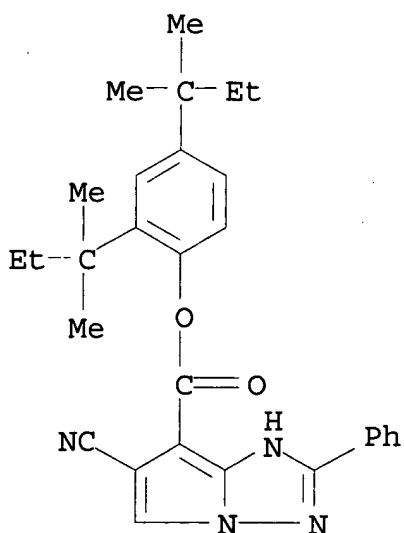
RN 152828-31-4 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
2-[3-[[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]p
henyl]-6-cyano-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



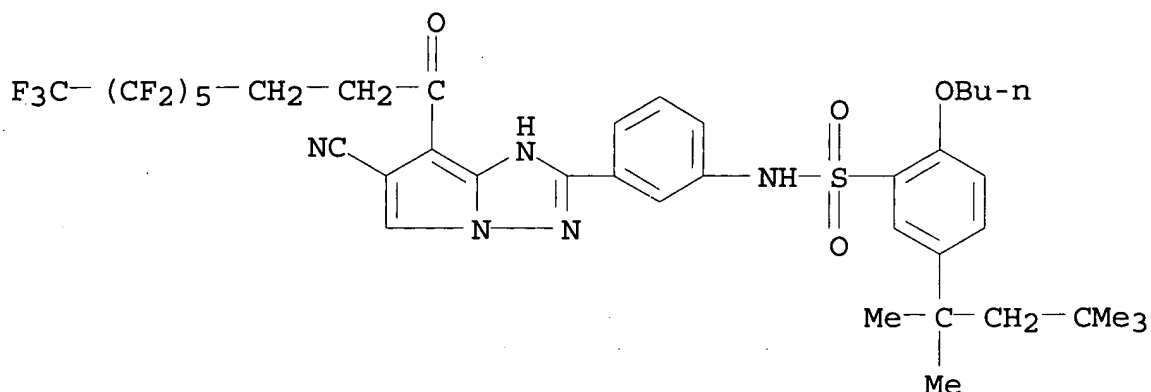
RN 154021-52-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-phenyl-, 2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI)
(CA INDEX NAME)



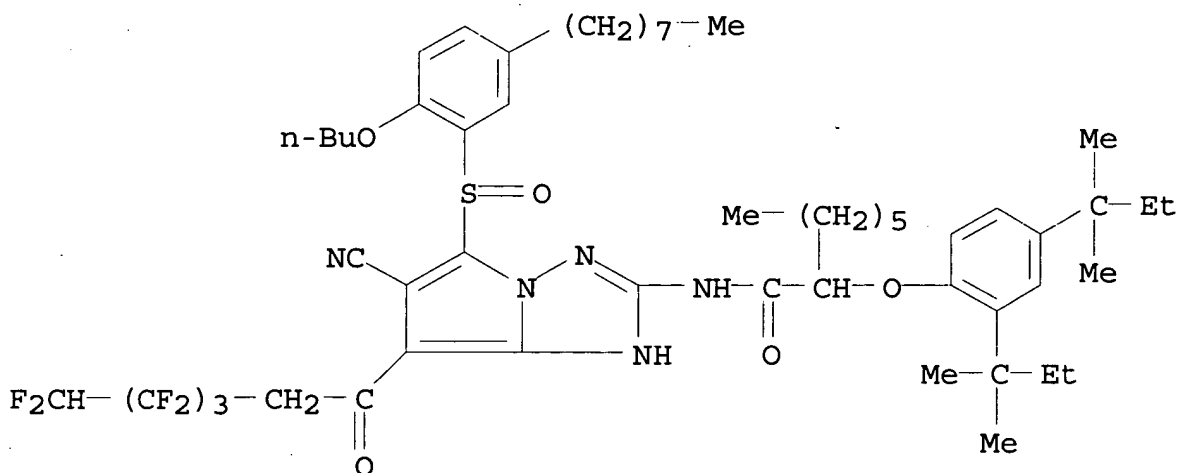
RN 157941-67-8 HCA

CN Benzenesulfonamide, 2-butoxy-N-[3-[6-cyano-7-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-1-oxononyl)-1H-pyrrolo[1,2-b][1,2,4]triazol-2-yl]phenyl]-5-(1,1,3,3-tetramethylbutyl)- (9CI)
(CA INDEX NAME)



RN 157941-68-9 HCA

CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[5-[(2-butoxy-5-octylphenyl)sulfinyl]-6-cyano-7-(3,3,4,4,5,5,6,6-octafluoro-1-oxohexyl)-1H-pyrrolo[1,2-b][1,2,4]triazol-2-yl]- (9CI) (CA INDEX NAME)

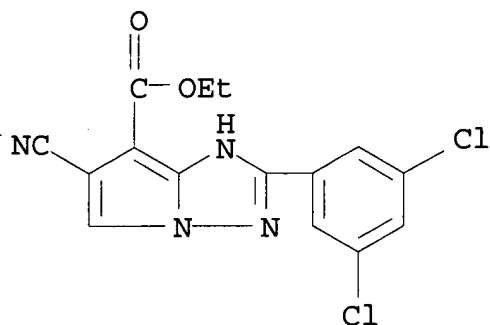


IT 146822-29-9P

(prepn. and reaction of, cyan coupler from, for photog. material)

RN 146822-29-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-(3,5-dichlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

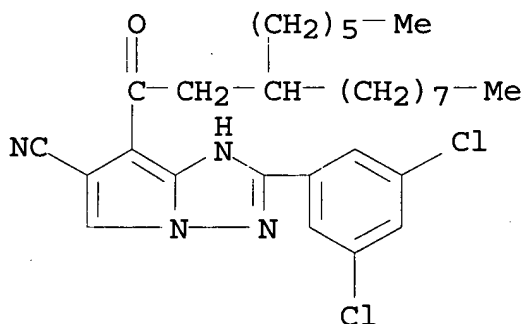


IT 157941-69-0P

(prepn. of, cyan coupler, for color **photog.** material)

RN 157941-69-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-6-carbonitrile,
2-(3,5-dichlorophenyl)-7-(3-hexyl-1-oxoundecyl)- (9CI) (CA INDEX
NAME)



IC ICM G03C007-38

ICS G03C001-035; G03C001-825; G03C007-407

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)
Section cross-reference(s): 41

ST **photog** material pyrroloazole cyan coupler dye

IT **Photographic** paper

(contg. pyrroloazole cyan coupler and specific dye)

IT **Photographic** couplers

(cyan, pyrroloazole)

IT 152828-31-4 154021-52-0 157941-67-8

157941-68-9

(cyan coupler, **photog.** material using)

IT 135872-57-0 135892-86-3 136266-66-5 137641-44-2 138826-54-7

(dye, **photog.** material using)

IT 146822-29-9P 151019-75-9P 151019-76-0P

(prepn. and reaction of, cyan coupler from, for **photog.**)

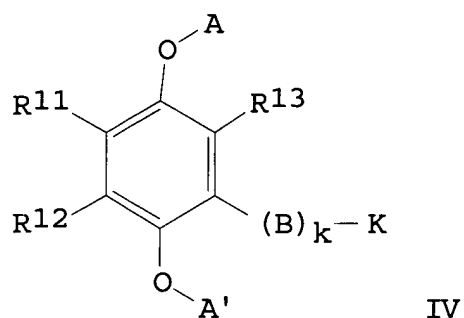
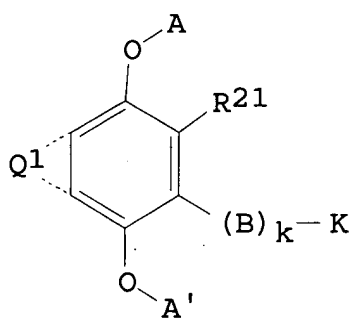
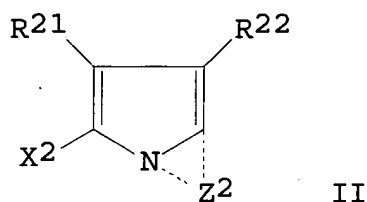
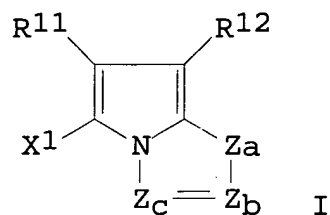
- material)
 IT 157941-69-0P
 (prepn. of, cyan coupler, for color **photog.** material)
 IT 2425-77-6
 (reaction of, cyan coupler from, for **photog.** material)
 IT 2905-62-6 154021-47-3
 (reaction of, cyan coupler from, for **photog.** material
photog. material)

L67 ANSWER 152 OF 152 HCA COPYRIGHT 2005 ACS on STN

121:121593 **Silver halide photographic**

materials with excellent color reproducibility and process stability. Yamamoto, Mitsuru; Suzuki, Makoto; Shimada, Yasuhiro (Fuji Photo Film Co Ltd, Japan). Jpn. Kokai Tokkyo Koho JP 05281679 A2 19931029 Heisei, 97 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1992-108434 19920402.

GI



- AB In the title **photog.** materials comprising .gtoreq.1 blue-, green-, and red-sensitive **Ag halide** emulsion layers on a support, .gtoreq.1 **photog.** constituting layer contains .gtoreq.1 cyan coupler represented by I or II [Za = NH, CH(R13); Zb, Zc = C(R14):, N:; R11-13 = electron acceptors with Hammett's substitution const. .sigma.p.gtoreq.0.2; sum of .sigma.p. of R11 and R12 is .gtoreq.0.65; R14,21 = H, substituent; Z2 =

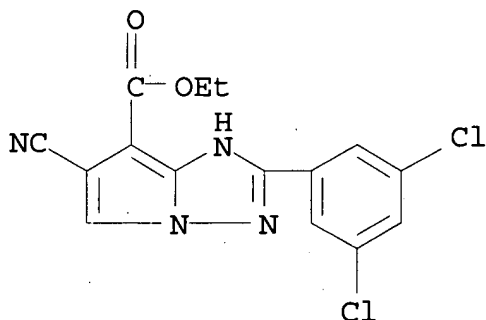
nonmetallic at. group forming N-contg. 6-membered heterocyclyl contg. .gtoreq.1 dissocg. moiety; X_{1,2} = H, moieties released upon coupling reaction with oxidized arom. primary amine color developing agent], and .gtoreq.1 compd. represented by III [R₁₁ = R₁₄N(R₁₆)CON(R₁₅), R₁₄OCON(R₁₅), R₁₄SO₂(R₁₅), R₁₄N(R₁₆)SO₂N(R₁₅), R₁₇CONH; R₁₄ = alkyl, alkenyl, alkynyl, aryl, heterocyclyl; T_{15,16} = H, alkyl, aryl; R₁₇ = C.gtareq.2 alkyl without heteroatoms adjacent to carbonyl group, alkenyl, alkynyl, aryl, heterocyclyl; R_{12,13} = H, substituent with Hammett's substitution const. .sigma.p.ltoreq.0.3; X = development inhibitor; k = integer; A, A' = moieties removable by H or alkali] or IV [Q₁ = at. group forming .gtoreq.5-membered heterocyclyl which combines C and contains .gtoreq.1 hetero-atom; R₂₁ = substituent on hydroquinone nucleus].

IT 146822-29-9P

(prepn. and reaction of, **silver halide color photog.** material from)

RN 146822-29-9 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-(3,5-dichlorophenyl)-, ethyl ester (9CI) (CA INDEX NAME)

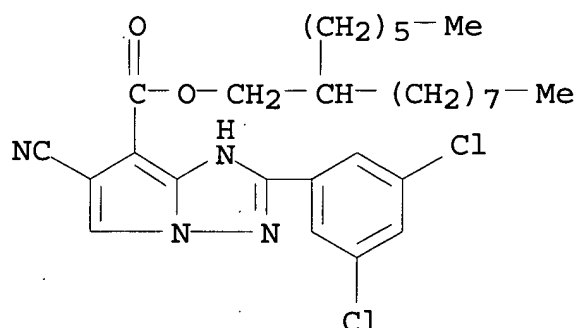


IT 151019-65-7P

(prepn. and use of, **silver halide color photog.** material from)

RN 151019-65-7 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-(3,5-dichlorophenyl)-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)

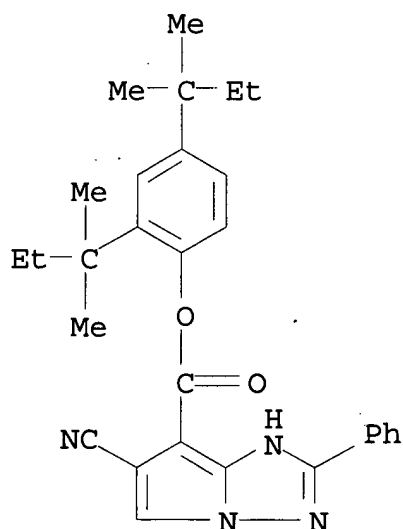


IT 154021-52-0 154021-60-0 155926-12-8

(silver halide color photog.
material contg.)

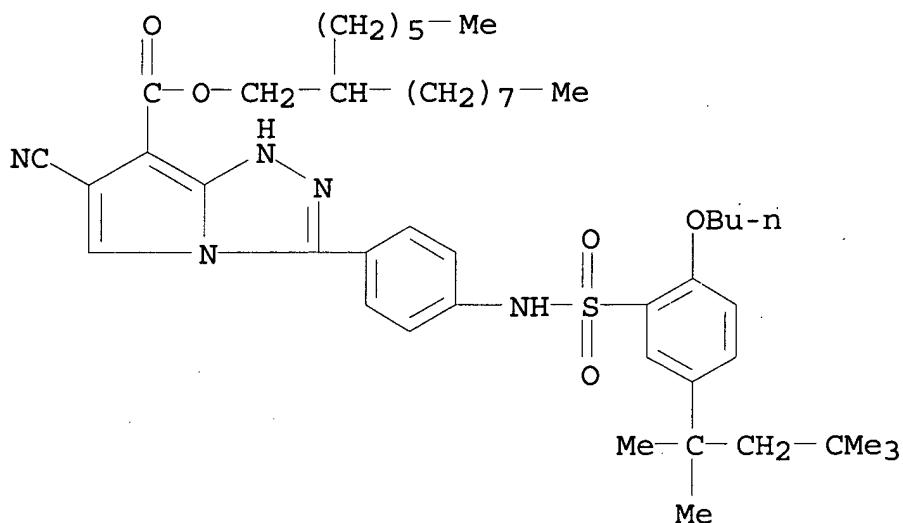
RN 154021-52-0 HCA

CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid,
6-cyano-2-phenyl-, 2,4-bis(1,1-dimethylpropyl)phenyl ester (9CI)
(CA INDEX NAME)



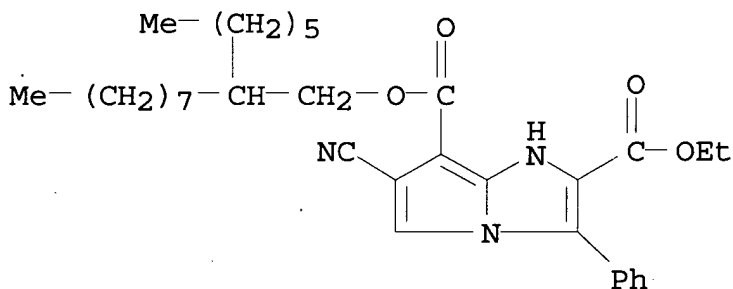
RN 154021-60-0 HCA

CN 1H-Pyrrolo[2,1-c]-1,2,4-triazole-7-carboxylic acid,
3-[4-[[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]p
henyl]-6-cyano-, 2-hexyldecyl ester (9CI) (CA INDEX NAME)



RN 155926-12-8 HCA

CN 1H-Pyrrolo[1,2-a]imidazole-2,7-dicarboxylic acid, 6-cyano-3-phenyl-,
2-ethyl 7-(2-hexyldecyl) ester (9CI) (CA INDEX NAME)



IC ICM G03C007-38

ICS G03C007-305

CC 74-2 (Radiation Chemistry, Photochemistry, and
Photographic and Other Reprographic Processes)

ST **silver halide** color **photog** material;
cyan coupler color **photog** material

IT **Photographic** couplers

(cyan, with excellent color reproducibility and process
stability)

IT 146822-29-9P 150172-54-6P 151019-75-9P 151019-76-0P
(prepn. and reaction of, **silver halide** color
photog. material from)

IT 151019-65-7P 156563-88-1P
(prepn. and use of, **silver halide** color
photog. material from)

IT 54153-51-4 154021-47-3
(reaction of, **silver halide** color
photog. material from)

IT 2923-93-5 142000-29-1 151249-56-8 153938-47-7
154021-52-0 154021-60-0 154787-42-5
155926-12-8 156563-86-9 156563-87-0
(**silver halide** color **photog.**
material contg.)